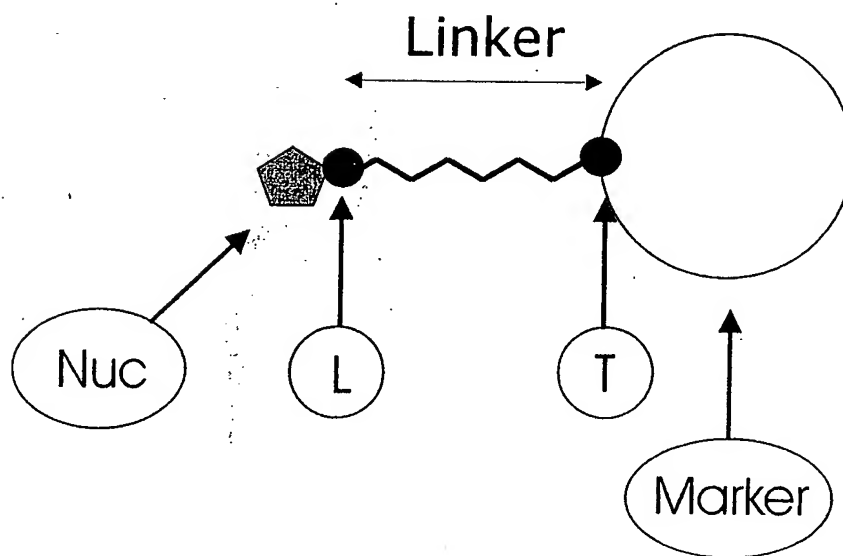


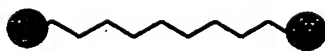
Fig. 1



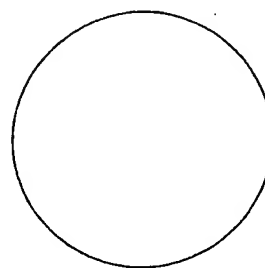
Legend:



Nuc-component

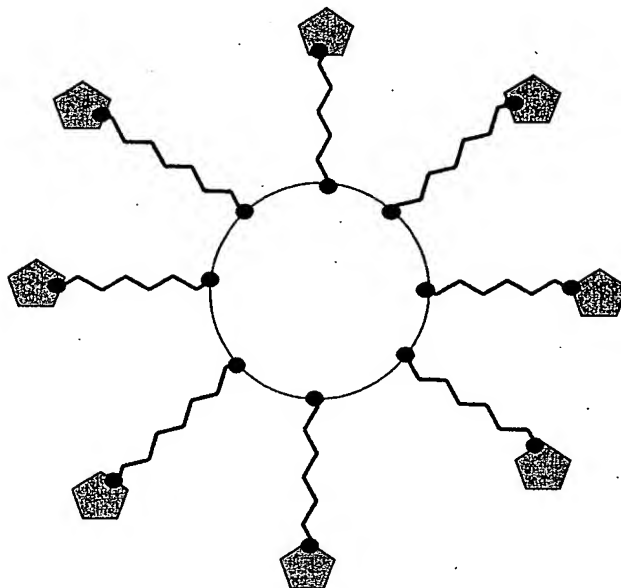


Linker component



Marker component

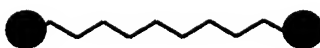
Fig. 2



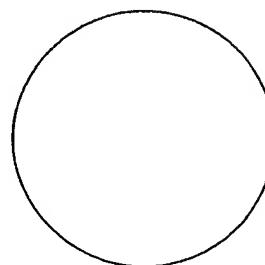
Legend:



Nuc-component



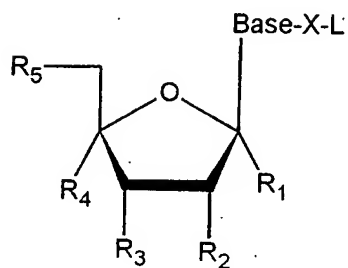
Linker component



Marker component

Fig. 3

A)



B)

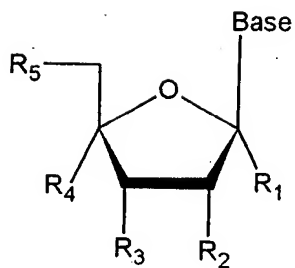
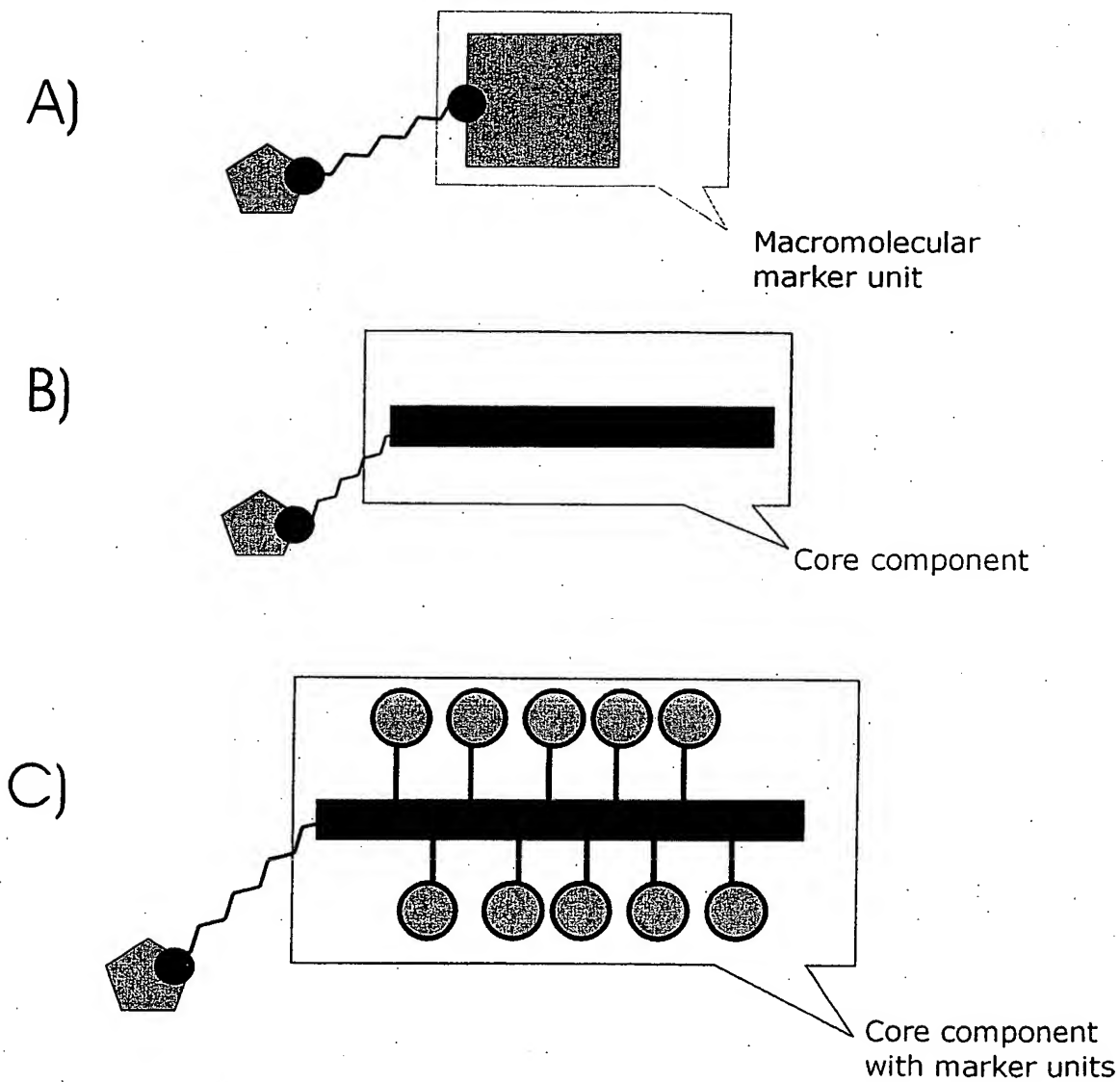


Fig. 4



Legend:

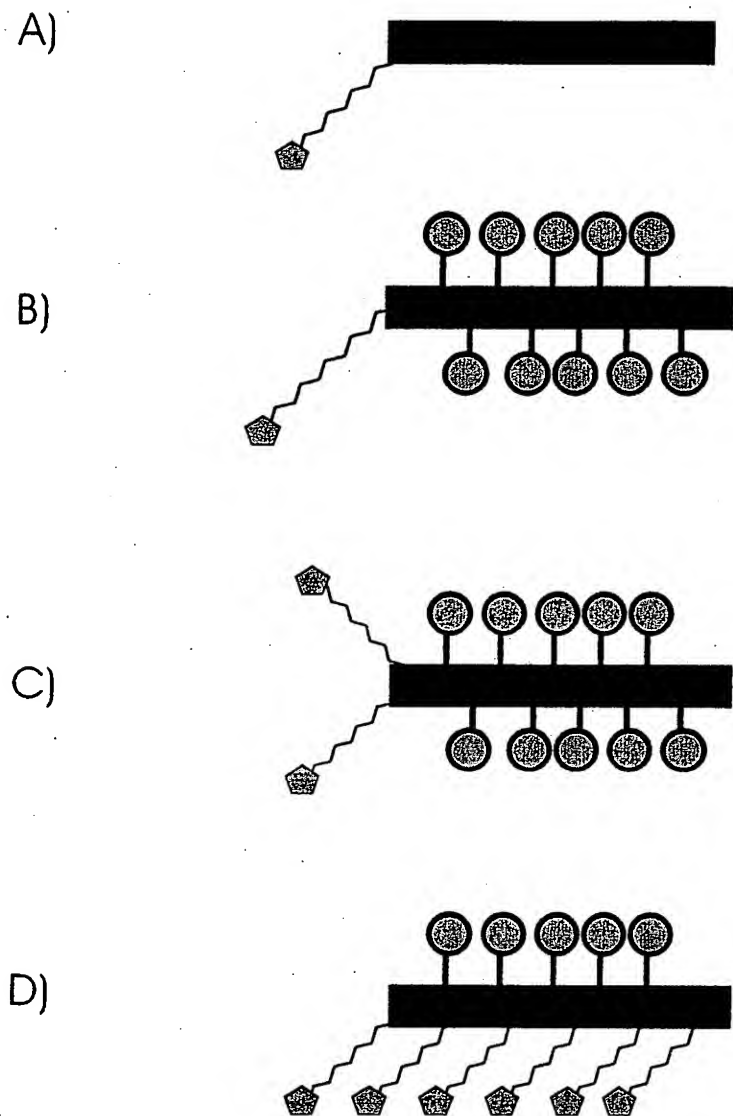


Nuc-component



Linker component

Fig. 5



Legend:



Nuc-component



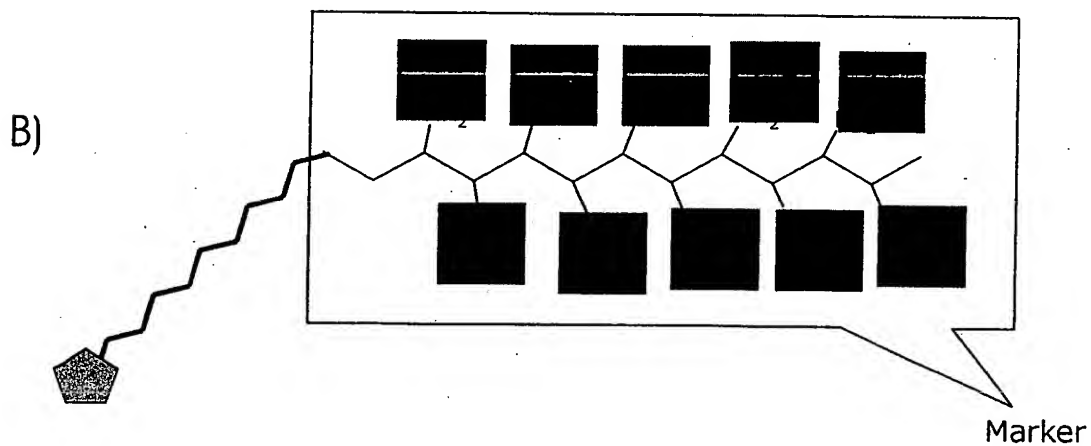
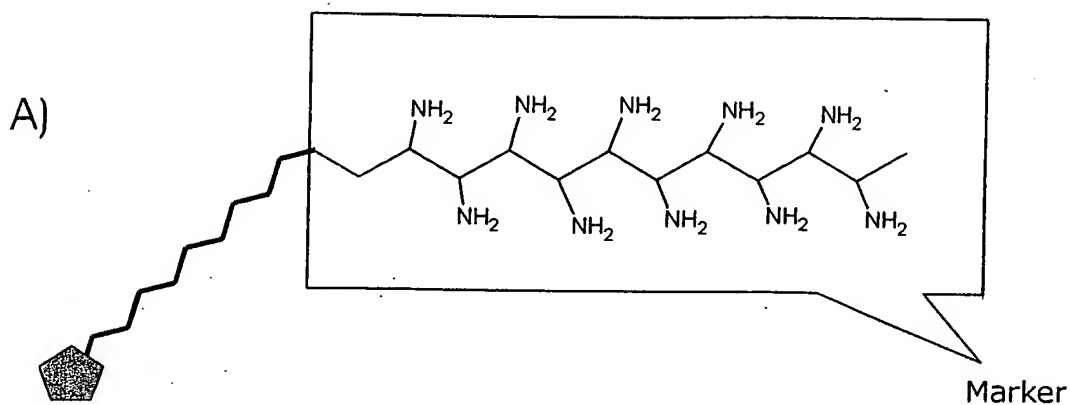
Linker component



Core component

Marker unit  
with a linker

Fig. 6



Legend:



Nuc-component

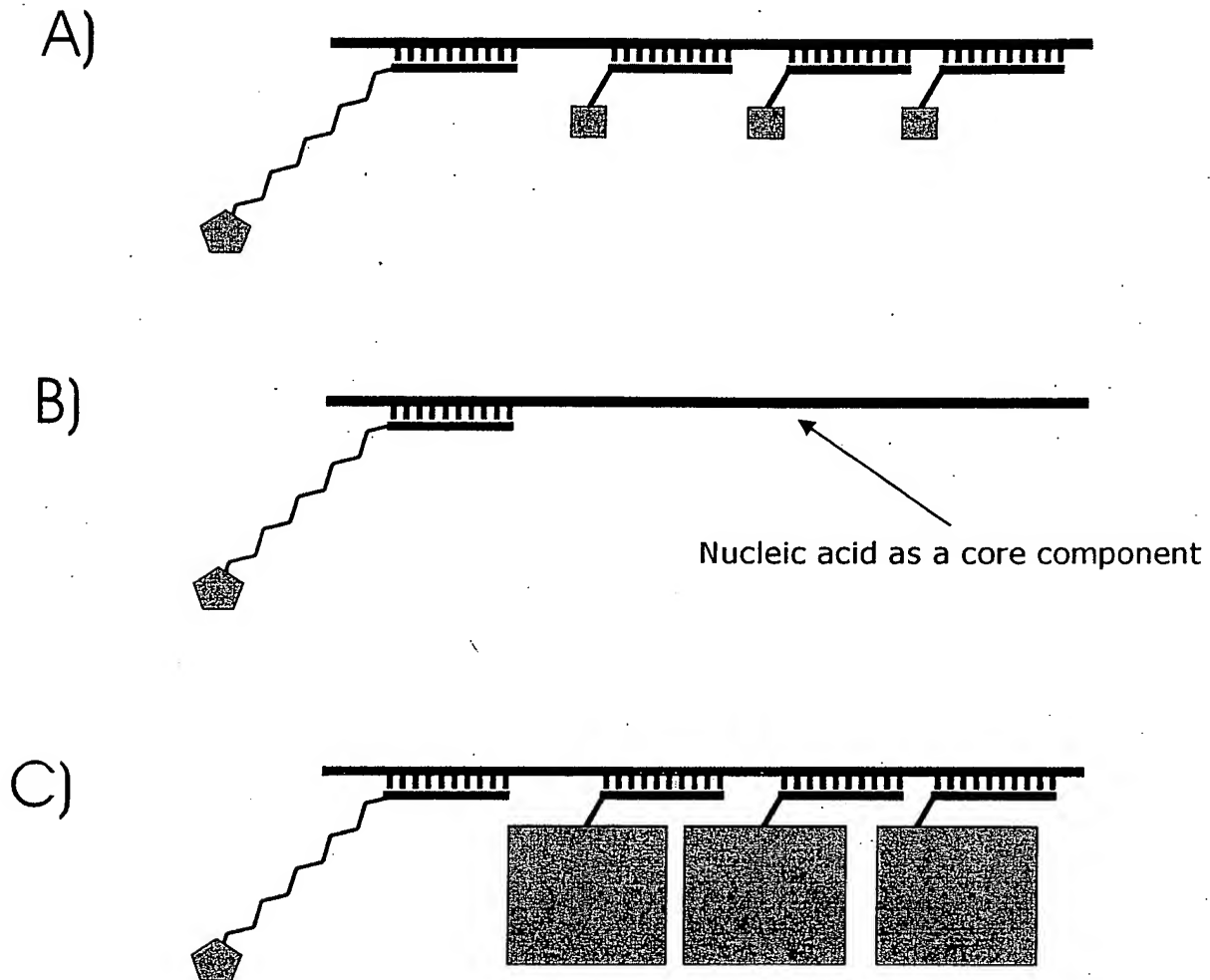


Linker component



Signal giving  
marker unit

Fig. 7



Legend:



Nuc-component



Linker component

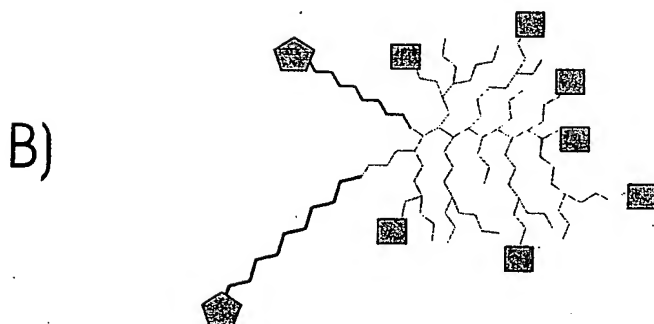
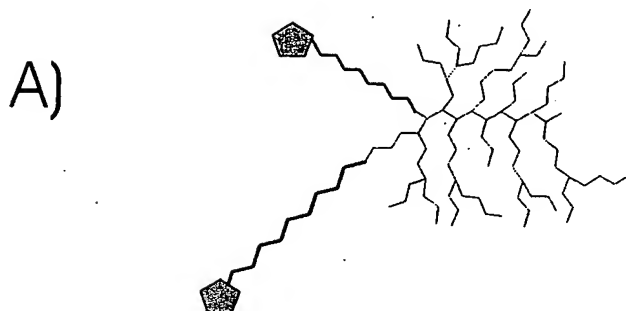


Signal giving  
marker unit



Nucleic acid with  
one signal giving  
marker unit

Fig. 8



Legend:



Nuc-component



Linker component

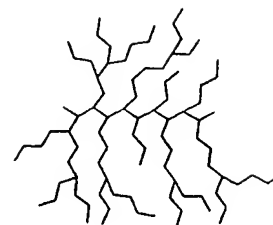
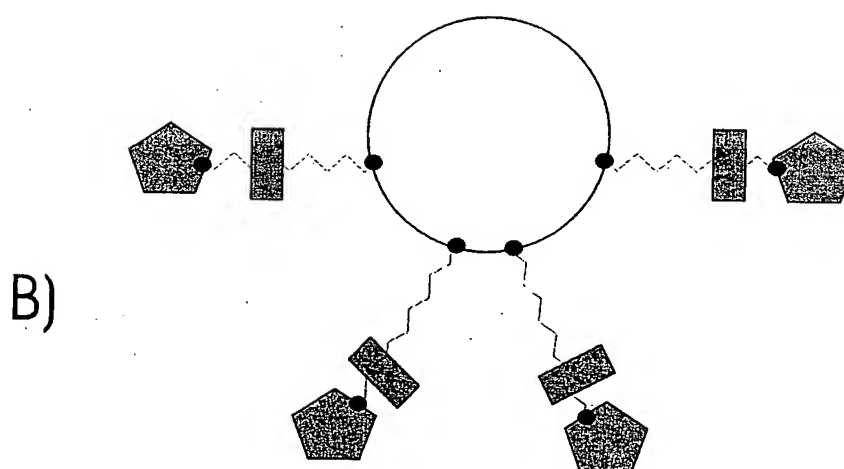
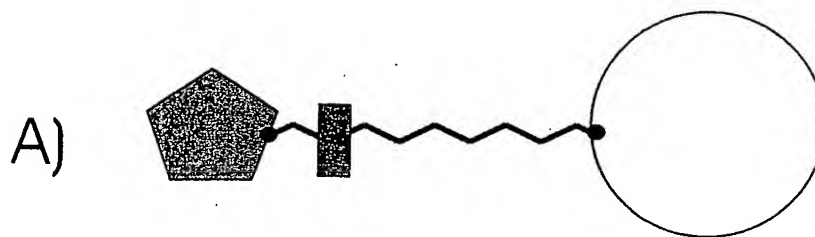
Signal giving  
marker unitBranched polymer  
as a core component  
e.g. Dendrimer



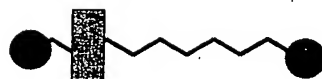
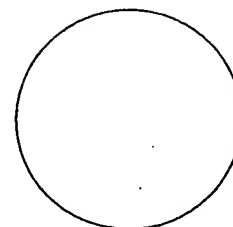
Fig. 9



Legend:



Nuc-component

Linker component  
with a cleavable  
compound

Marker component

Fig. 10

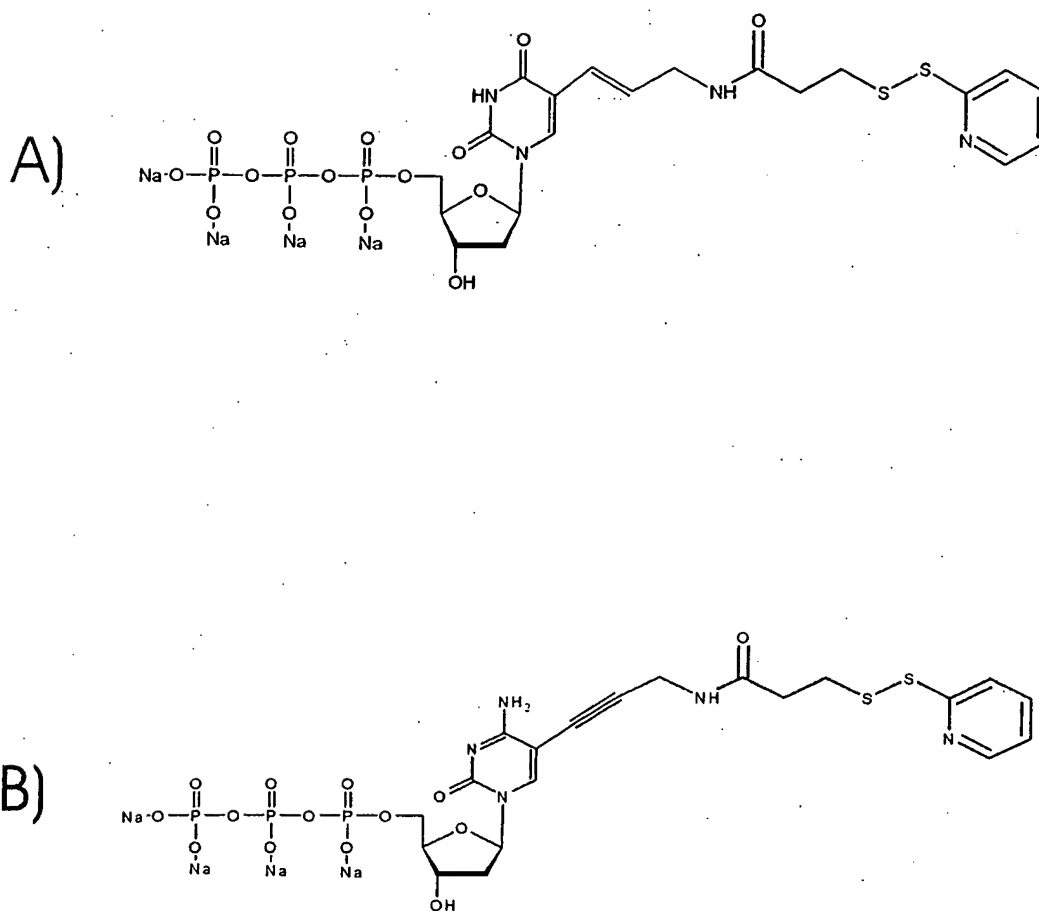


Fig. 11

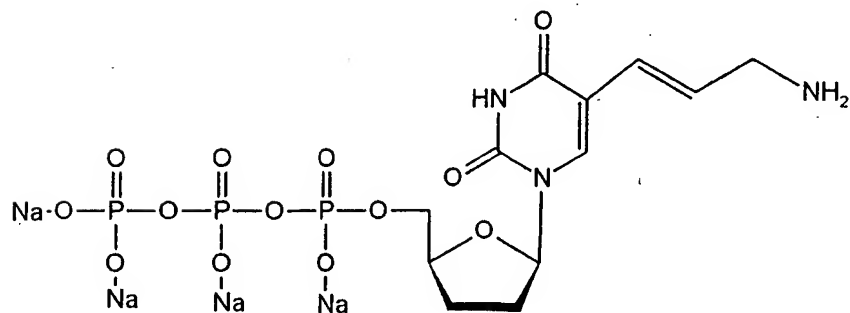
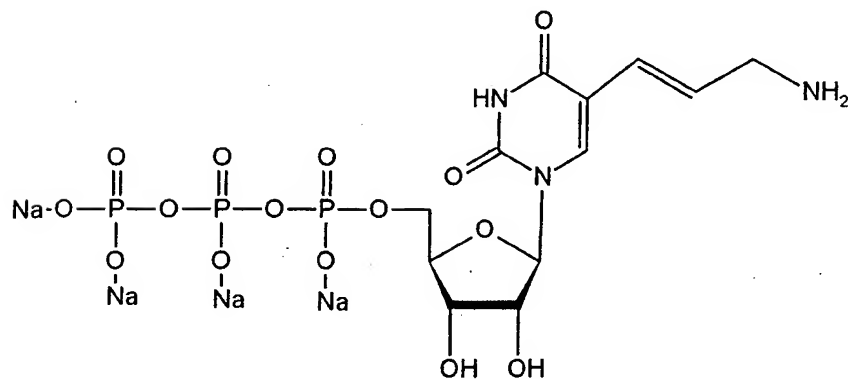
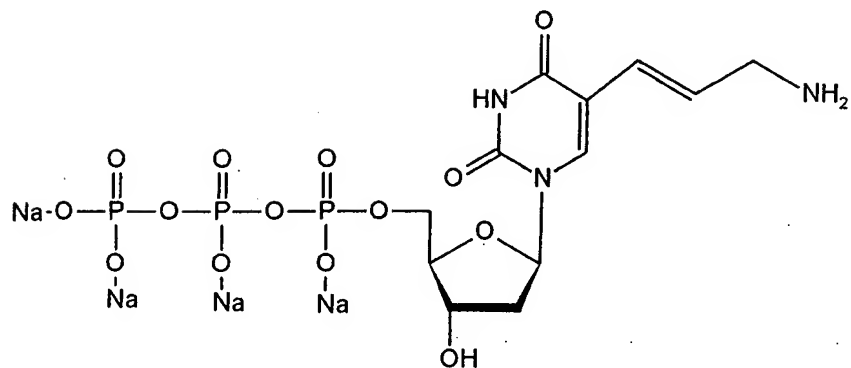


Fig. 12

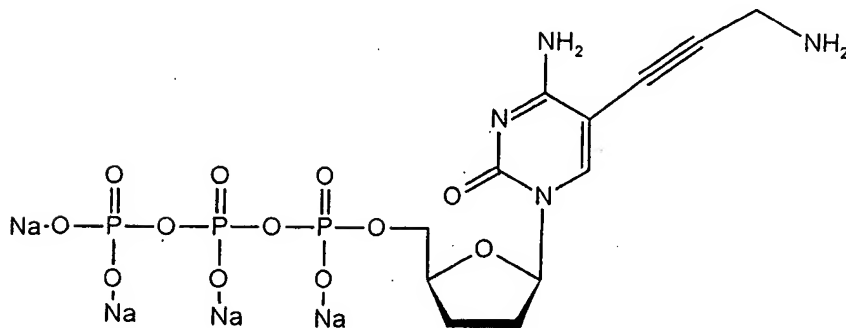
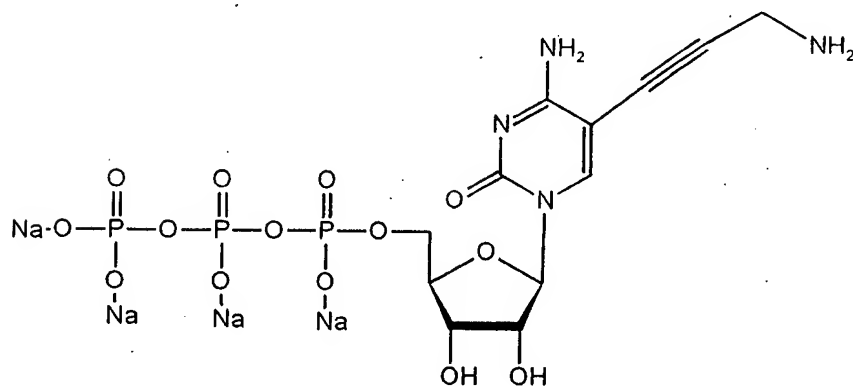
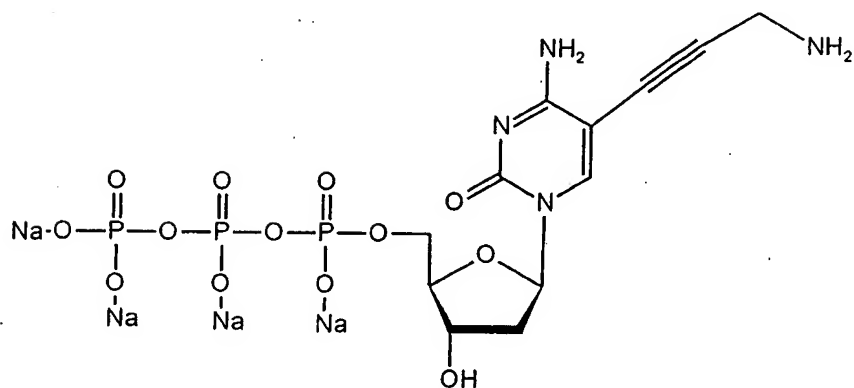


Fig. 13

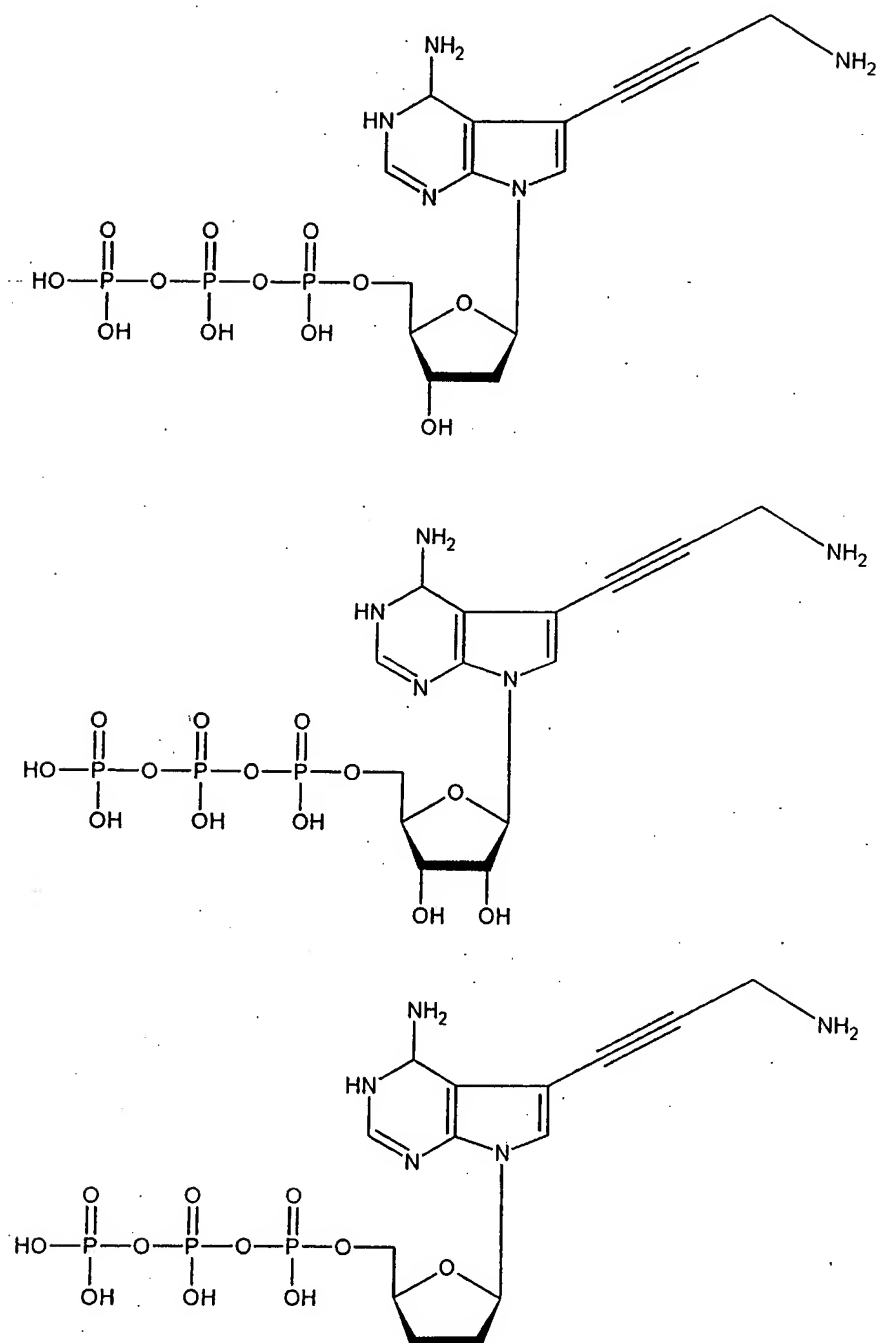


Fig. 14

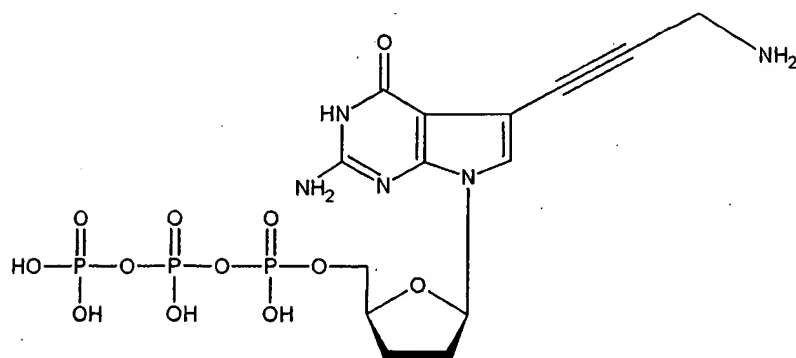
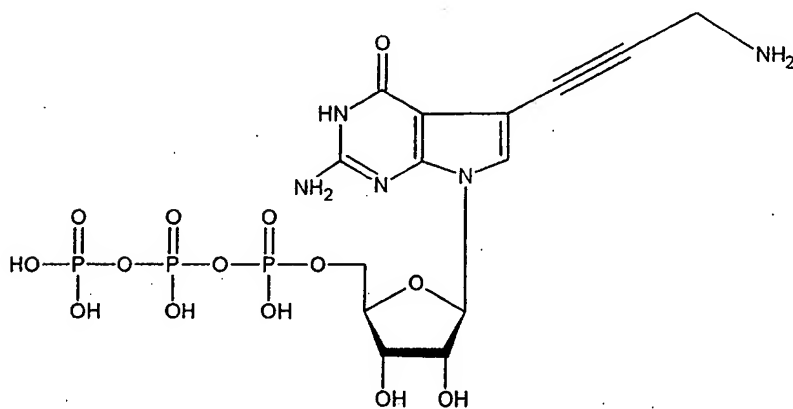
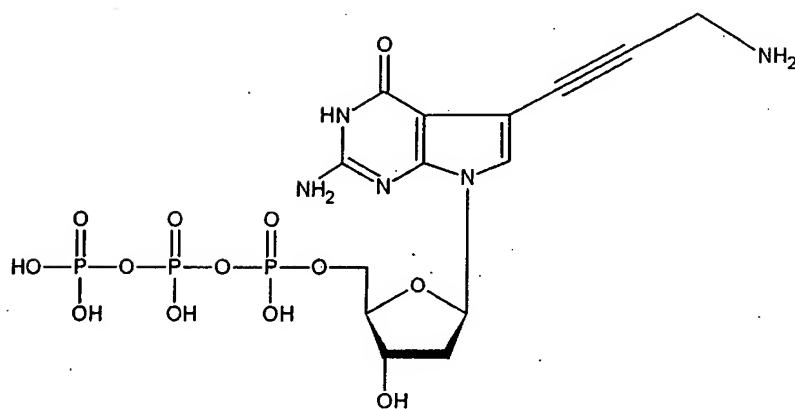


Fig. 15

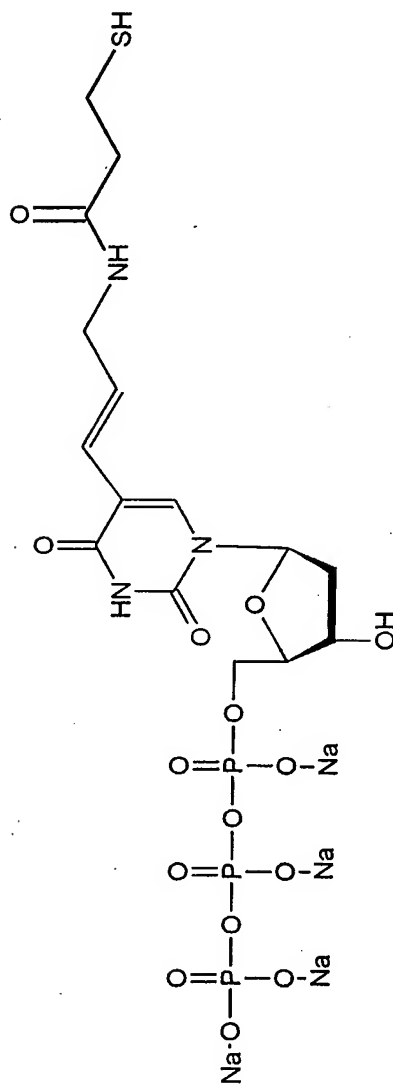


Fig. 16

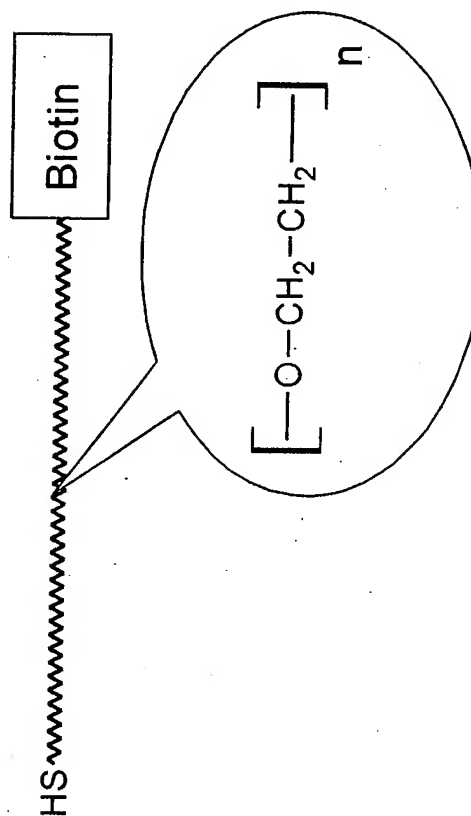




Fig. 17

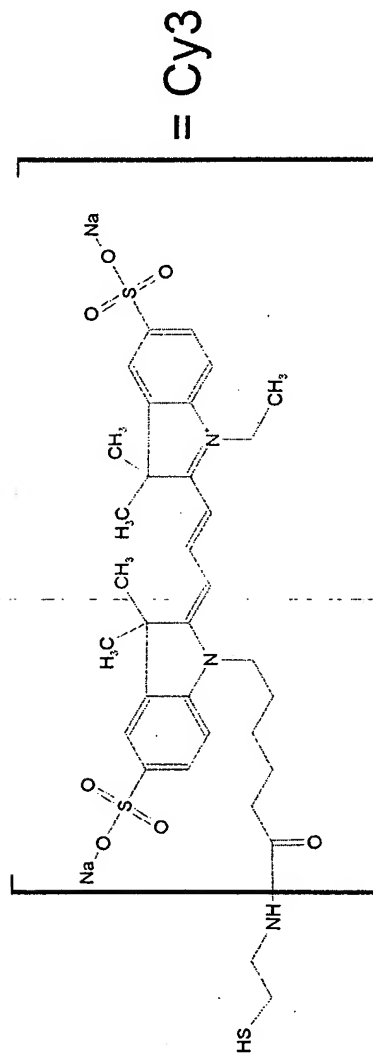


Fig. 18

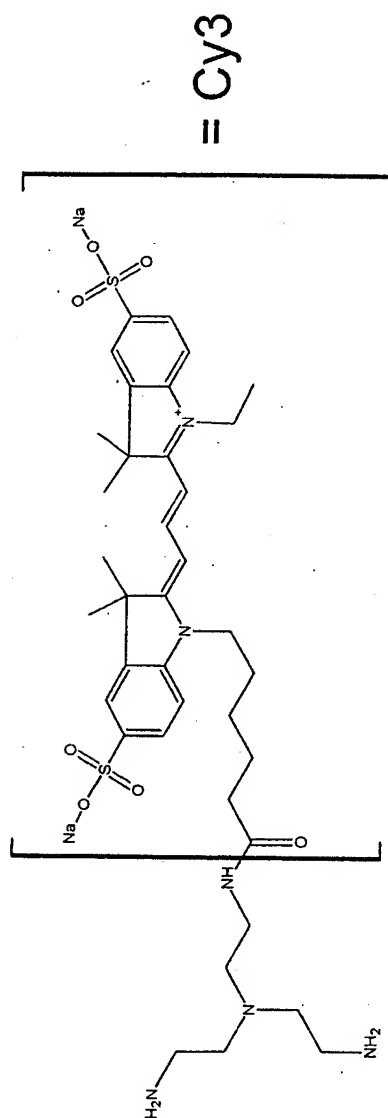


Fig. 19

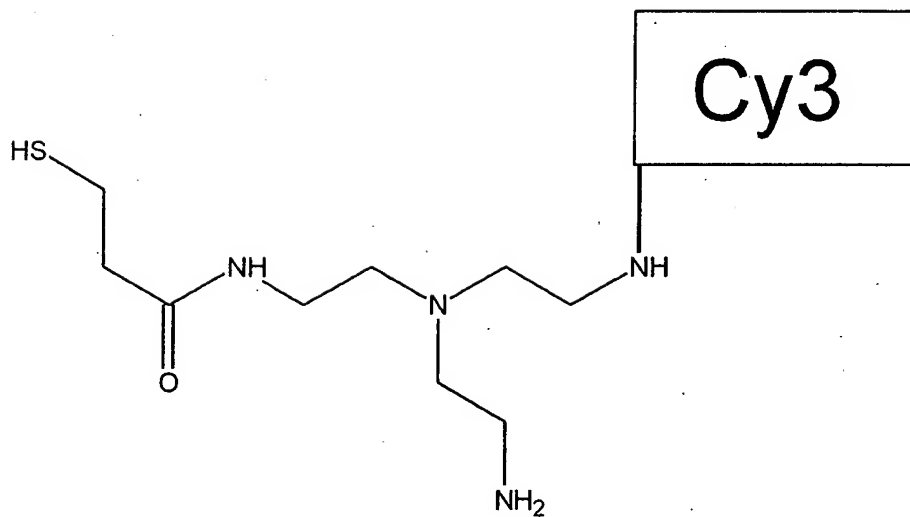


Fig. 20

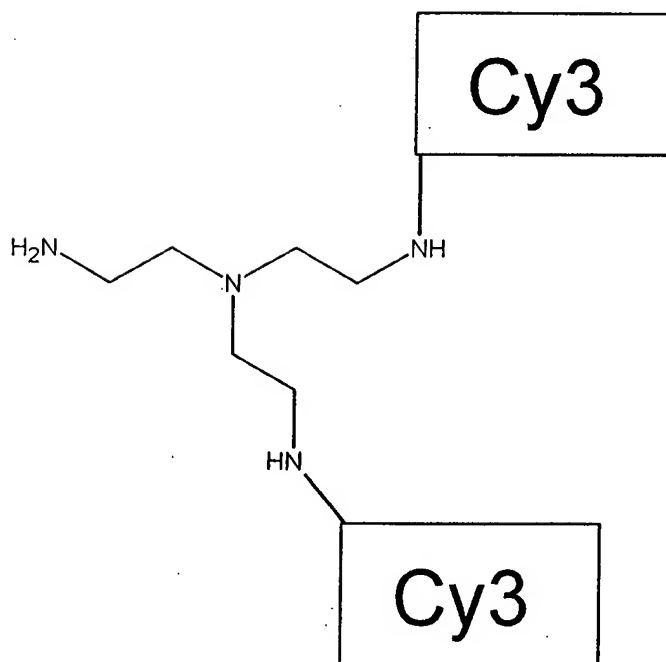


Fig. 21

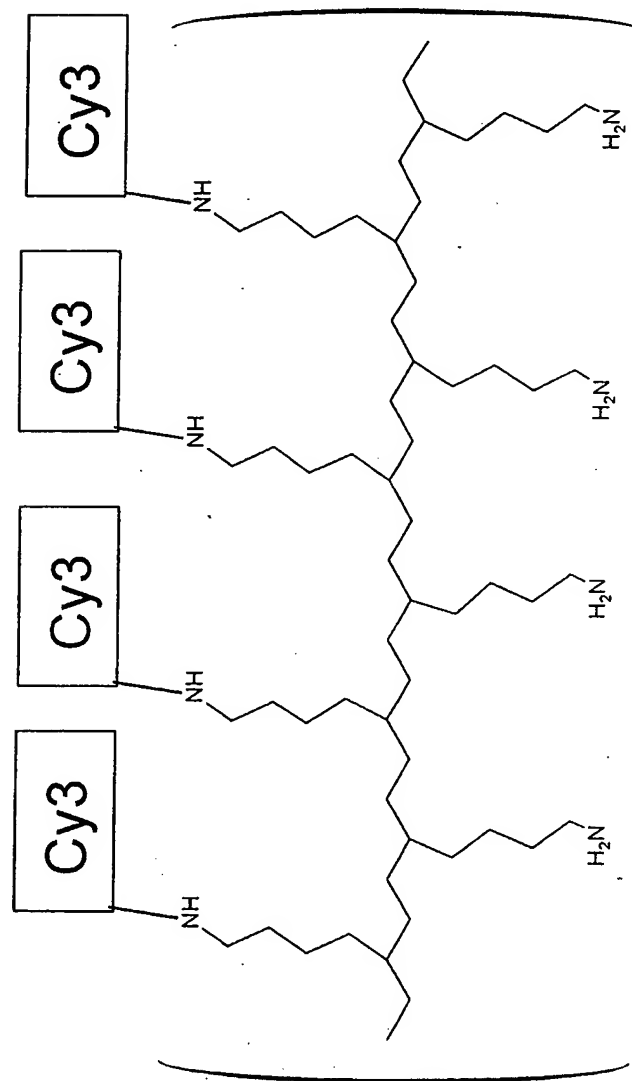


Fig. 22

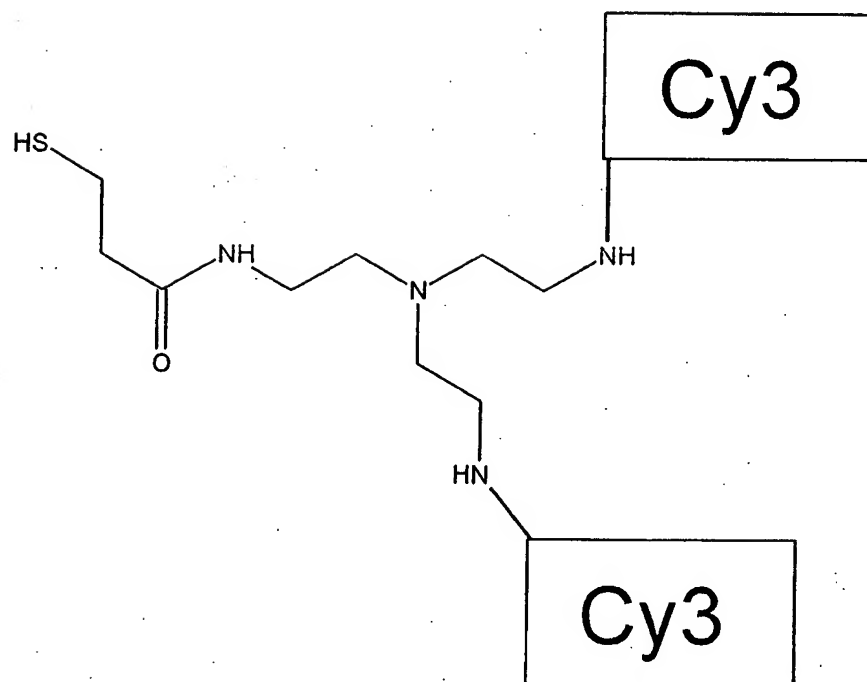


Fig. 23

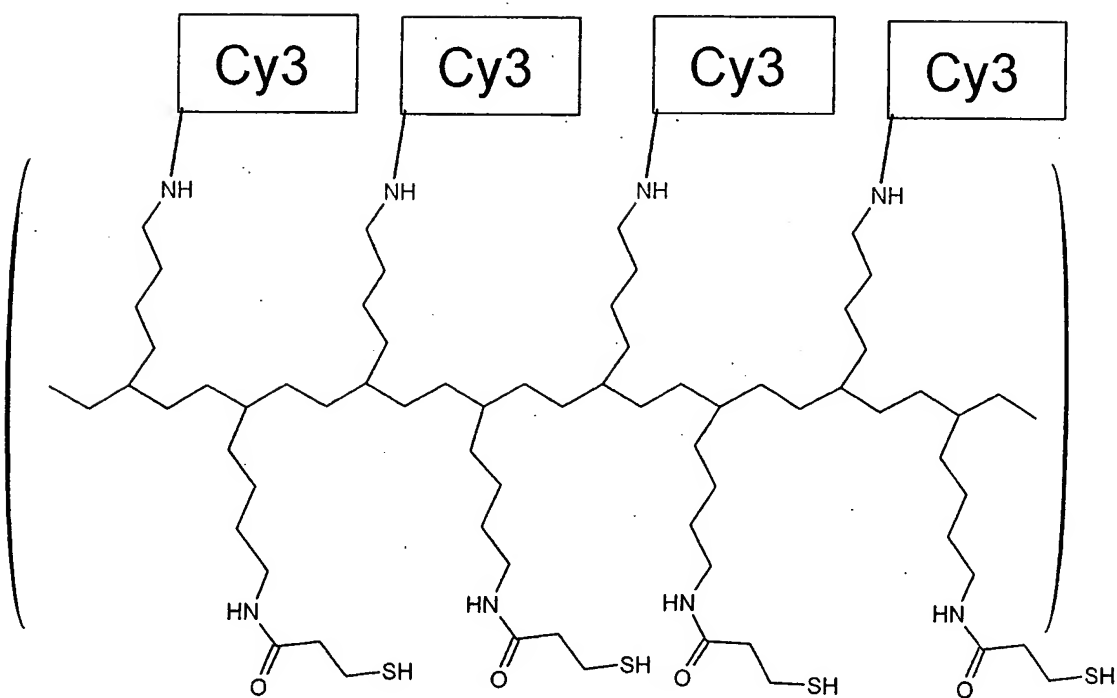
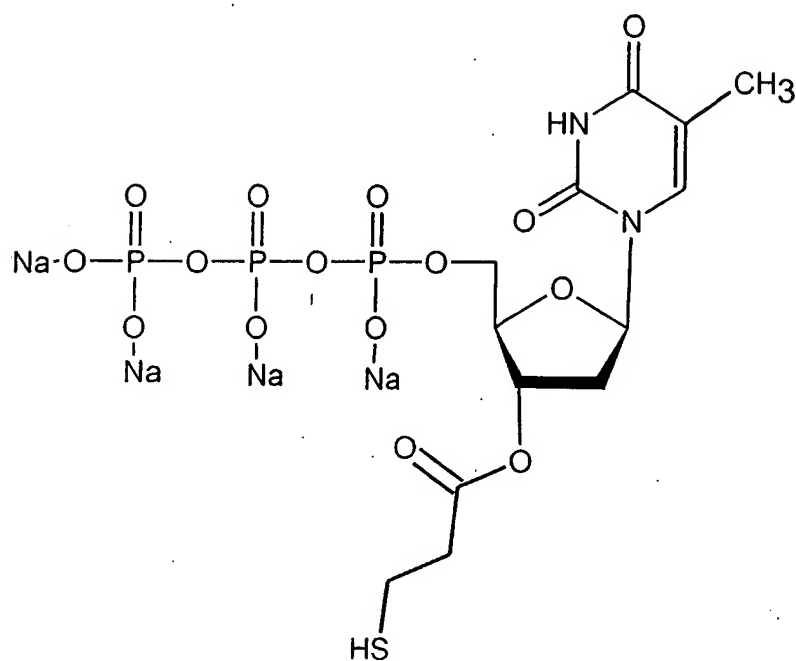


Fig. 24

A)



B)

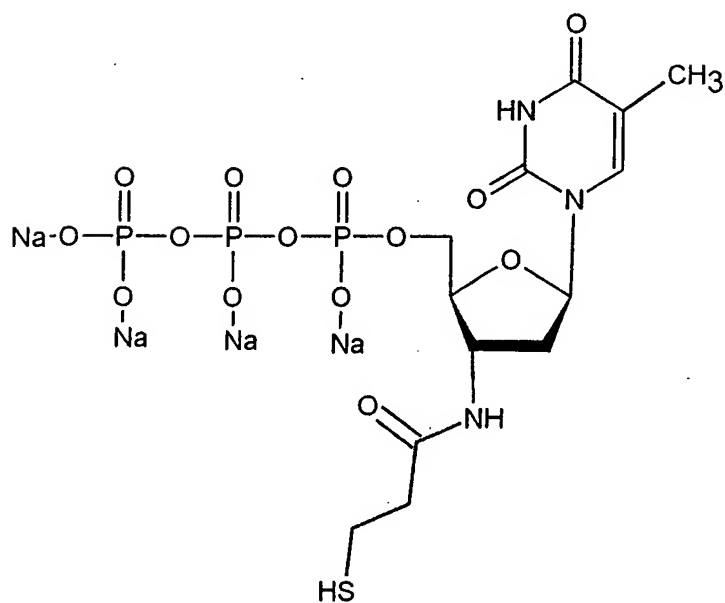




Fig. 25

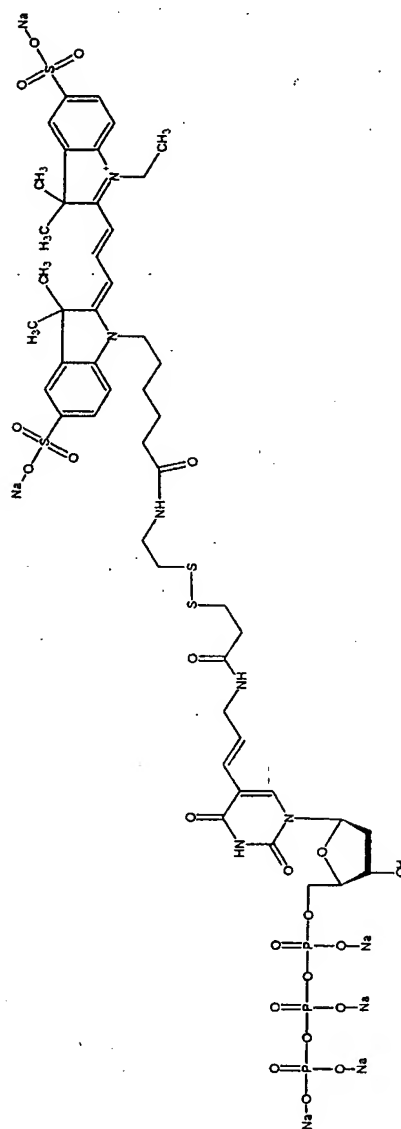


Fig. 26

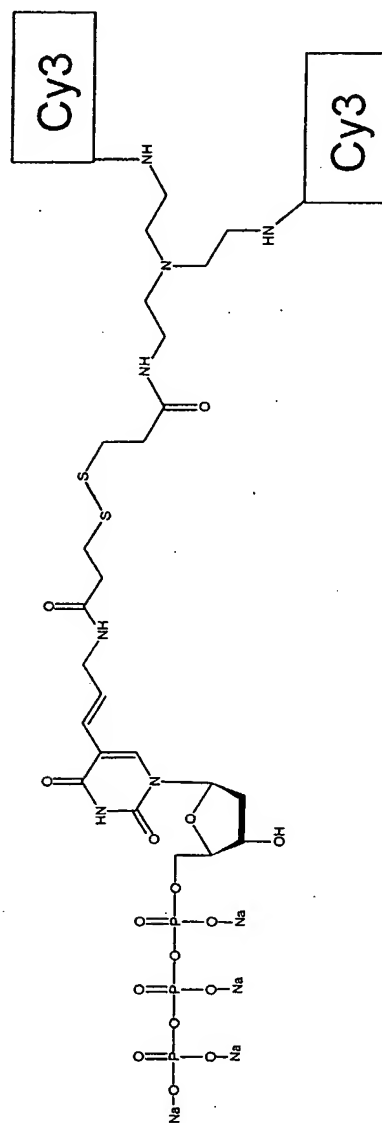


Fig. 27

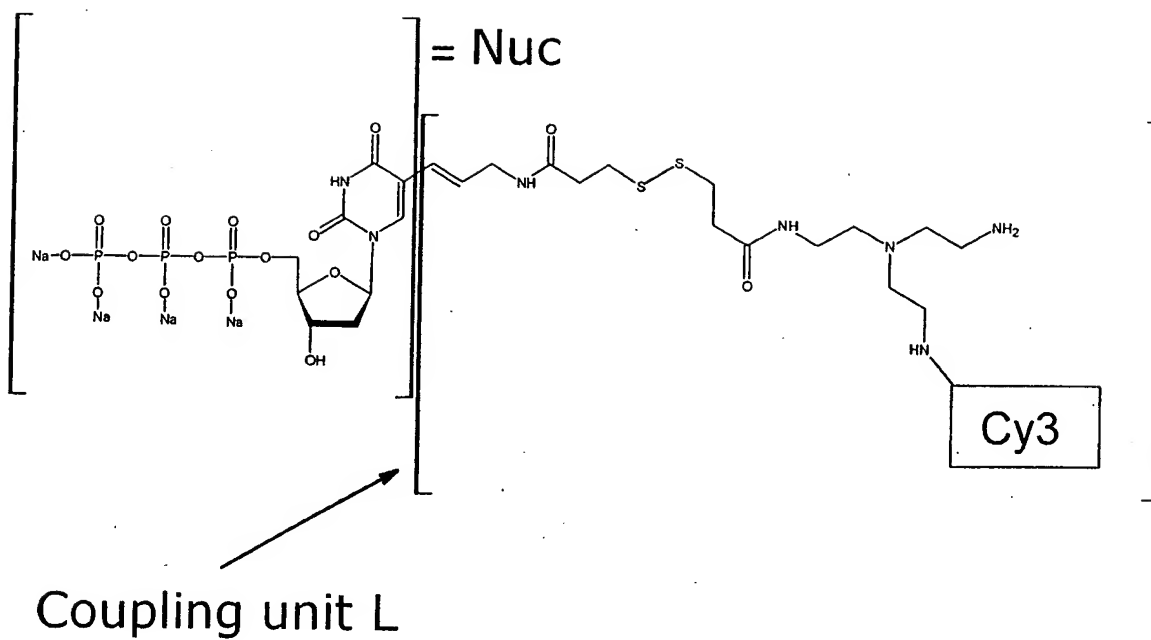


Fig. 28

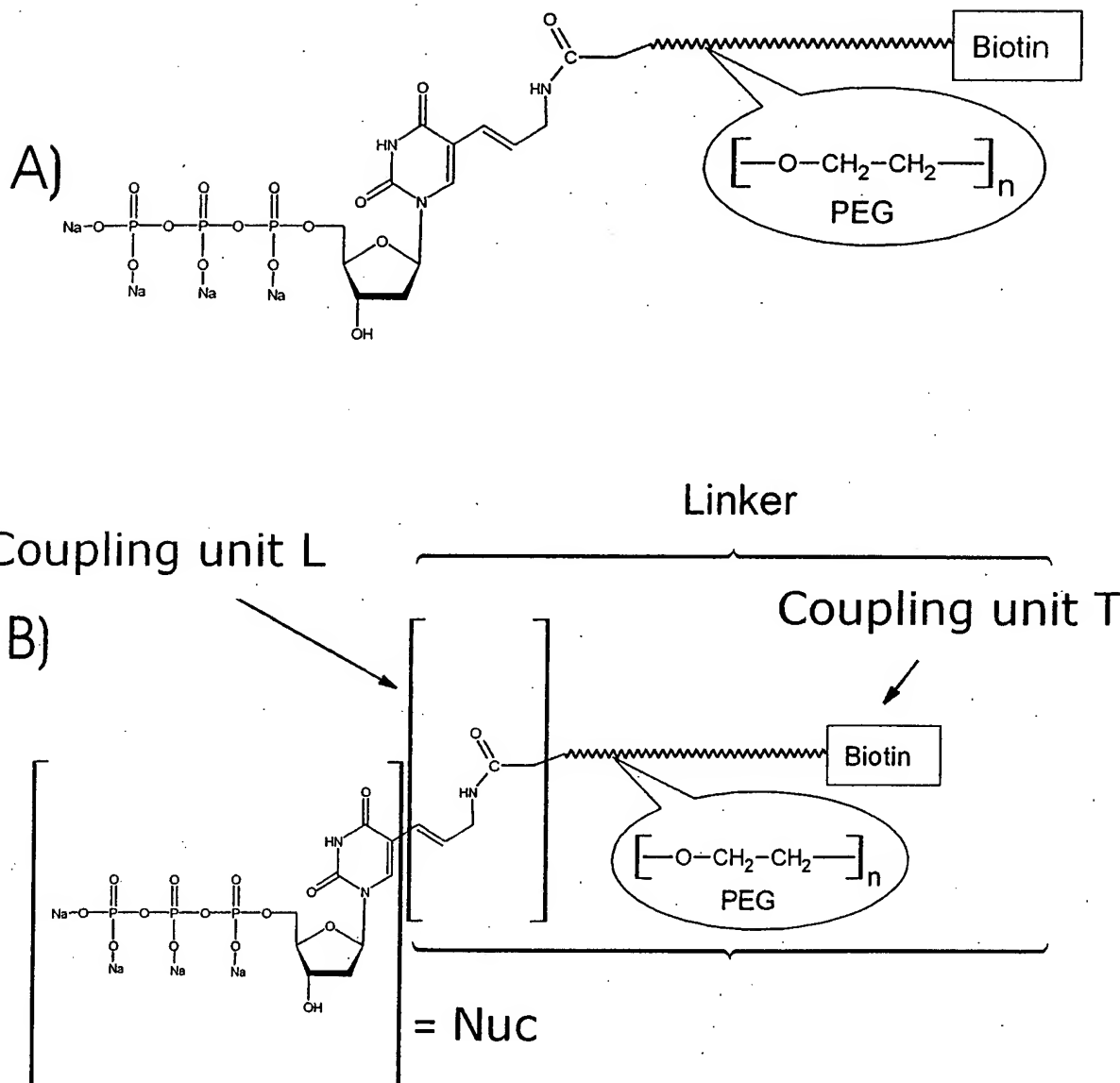


Fig. 29

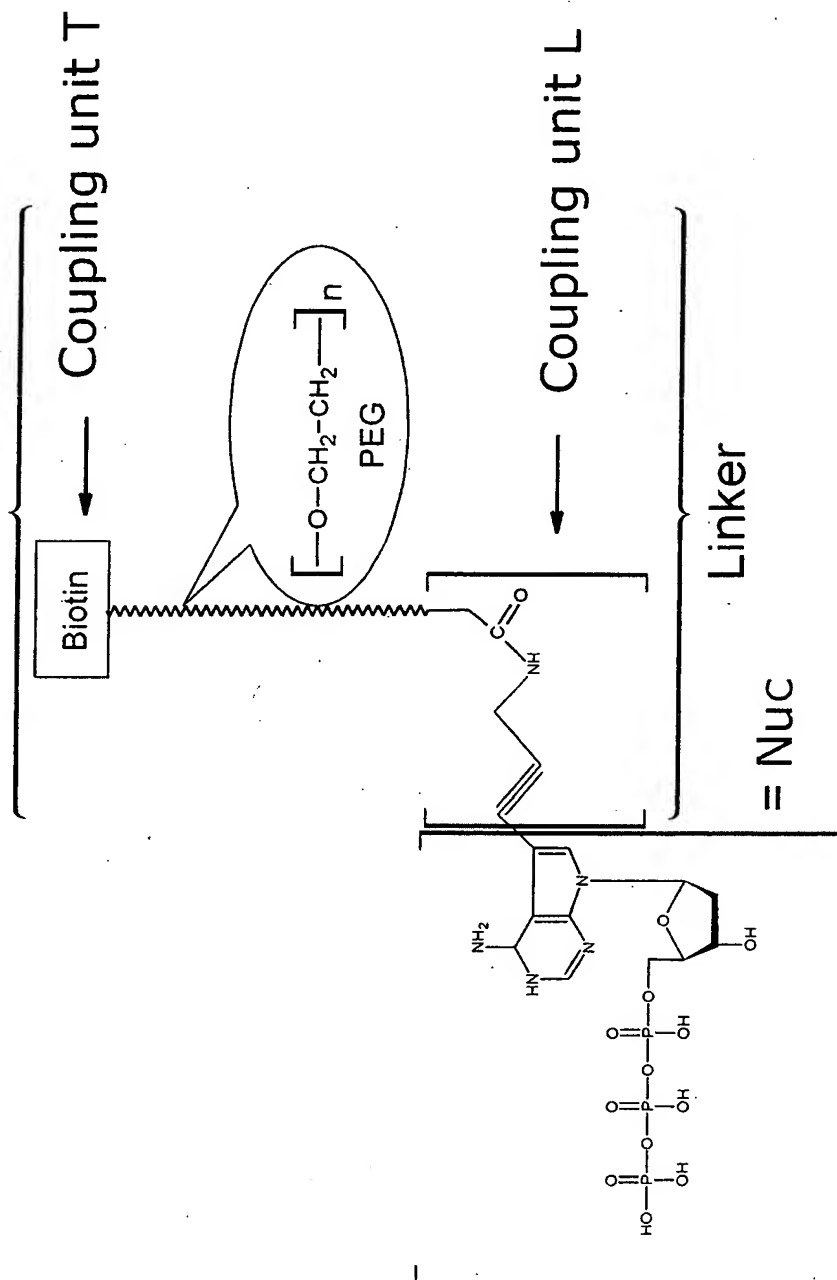


Fig. 30

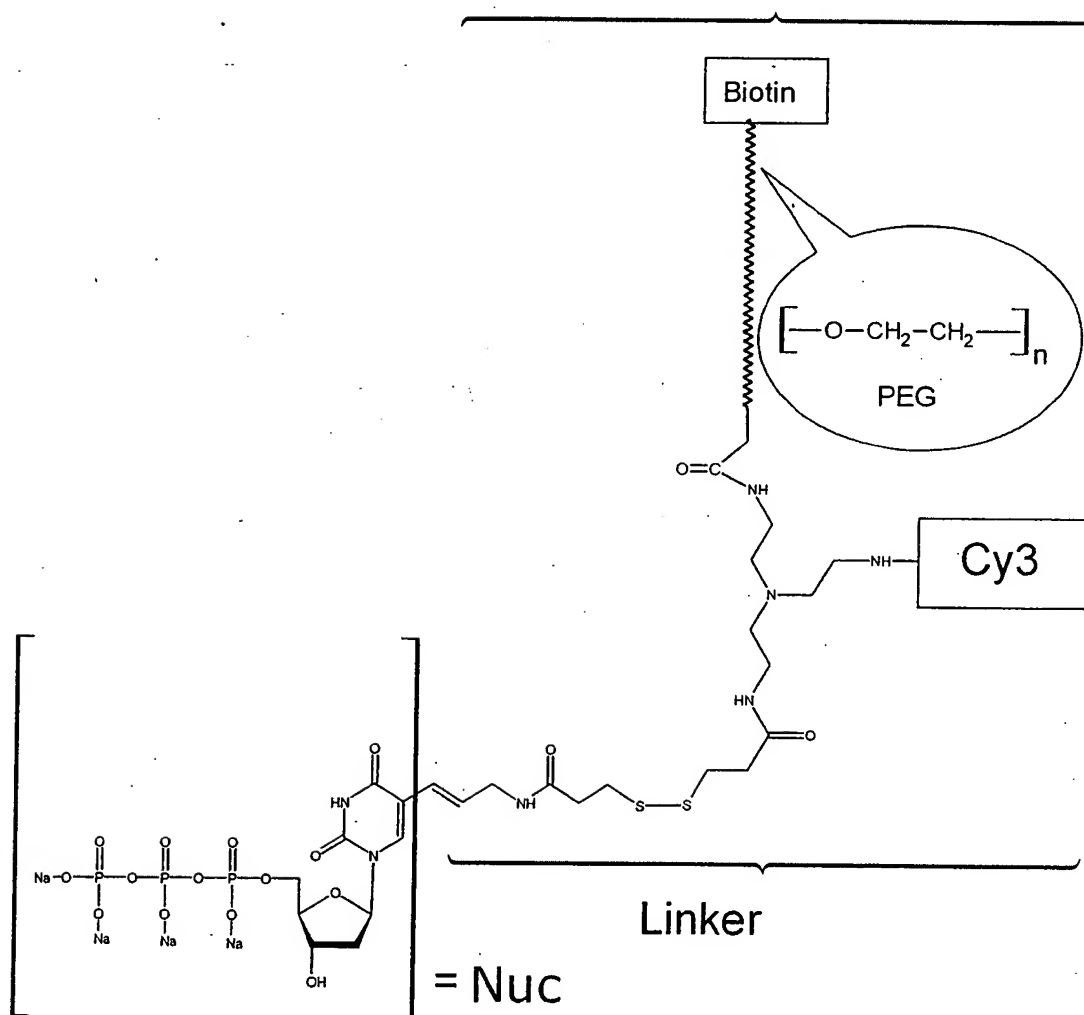


Fig. 31 A

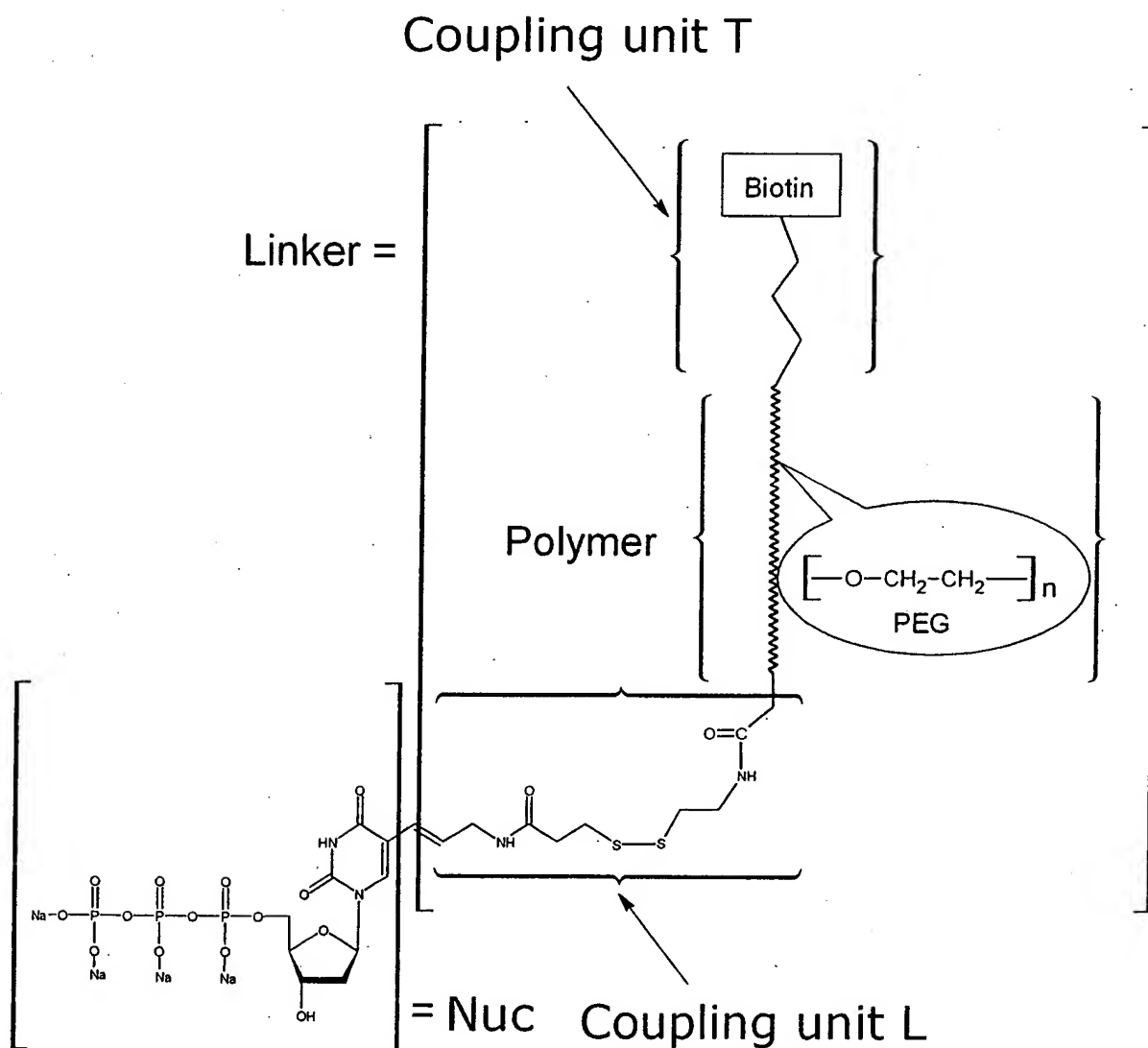


Fig. 31 B

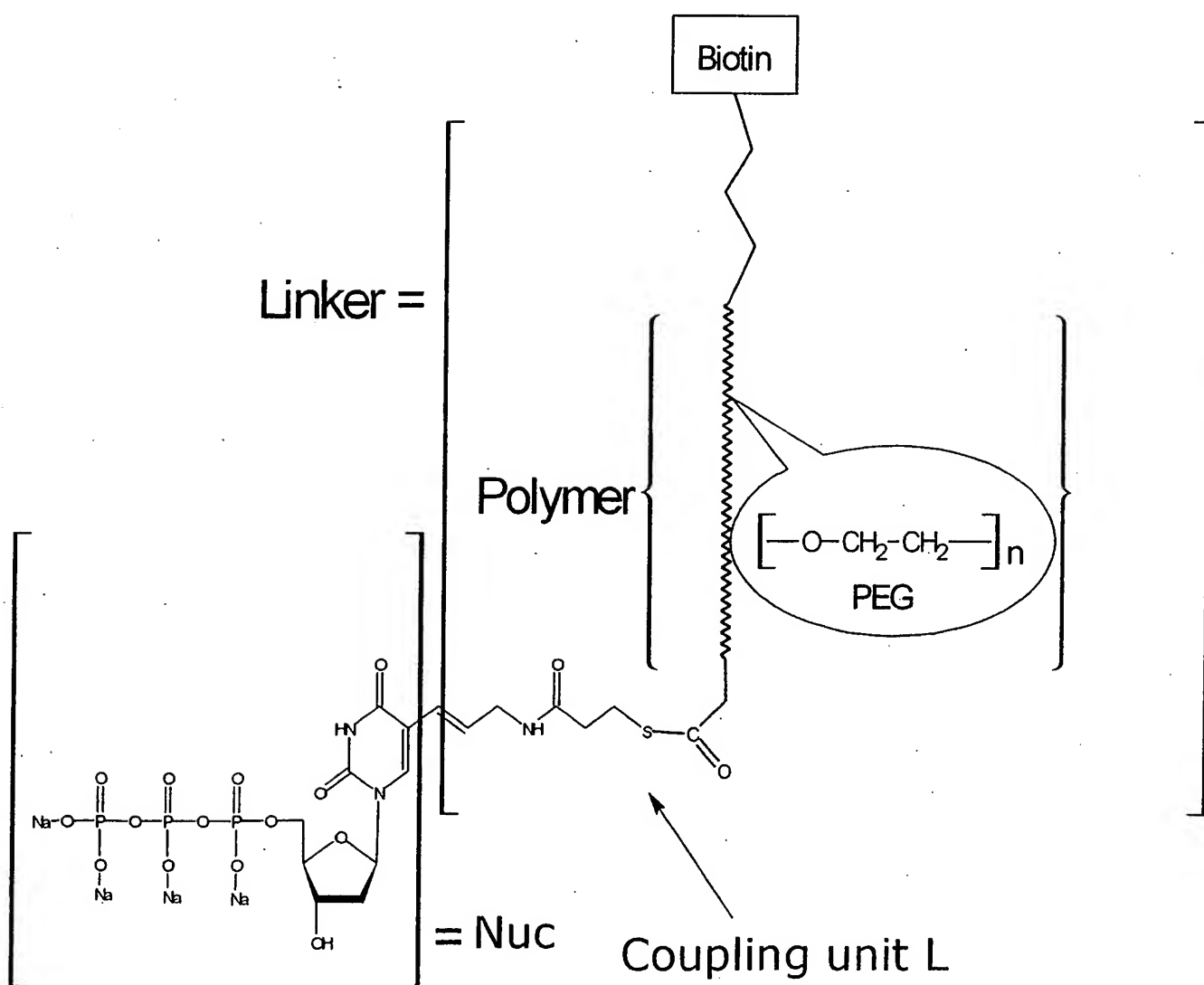
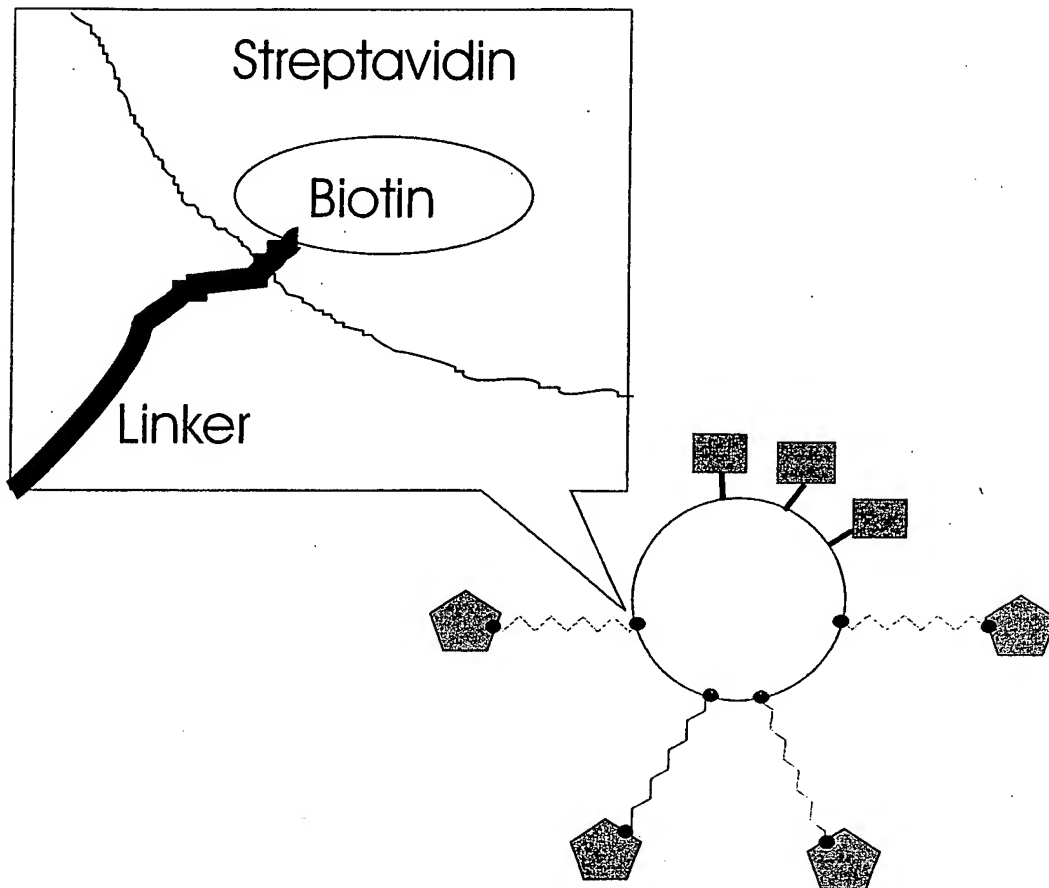




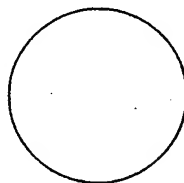
Fig. 32



Legend:



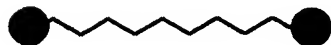
dUTP as a nuc-component



Streptavidin as a marker component

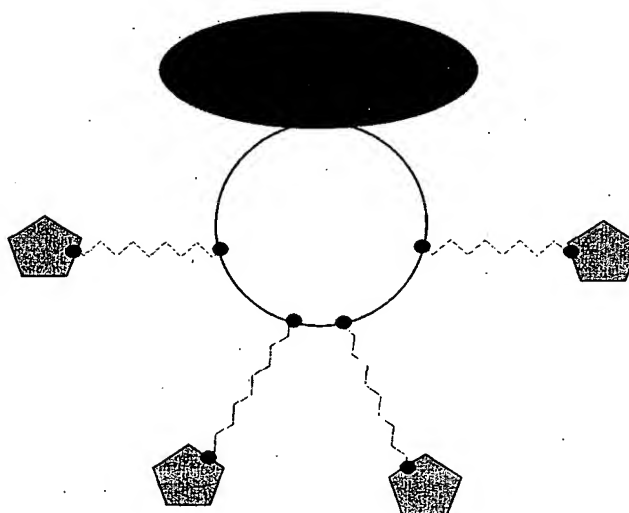


Fluorescent dye



Linker component

Fig. 33



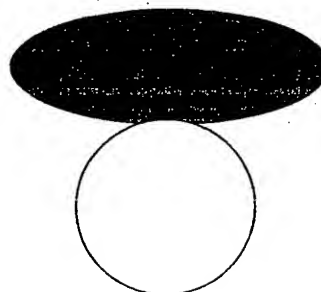
Legend:



dUTP as a nuc-component

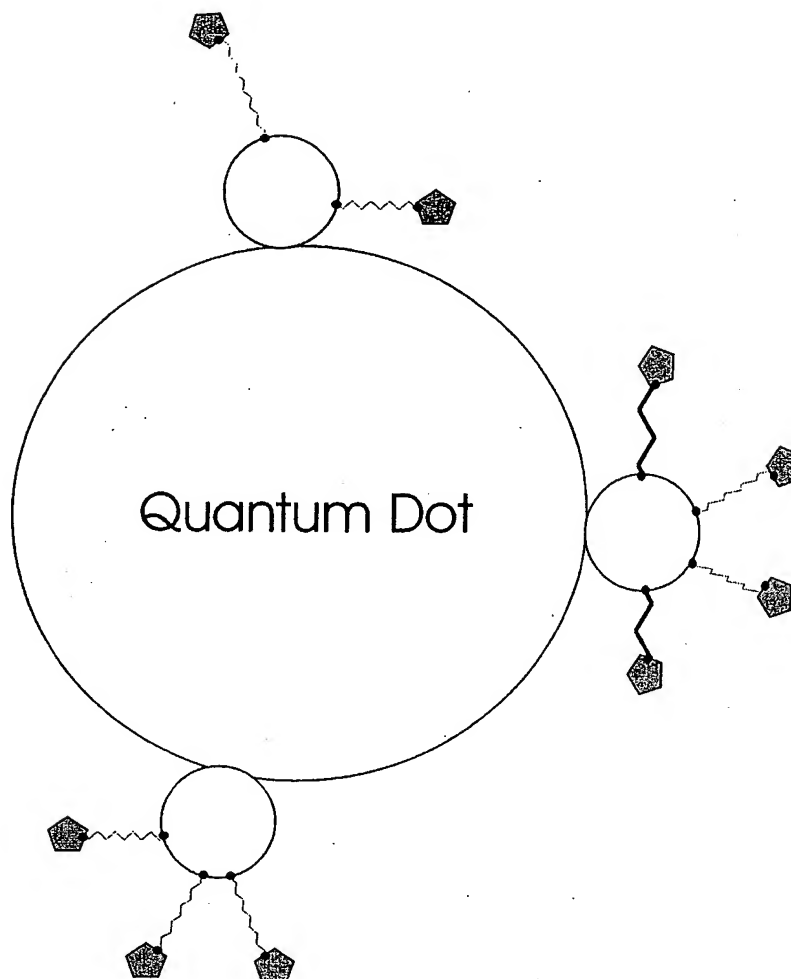


Linker component



Streptavidin-enzyme conjugate  
as a marker component

Fig. 34



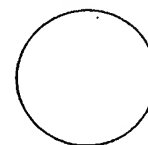
Legend:



dUTP as a nuc-component

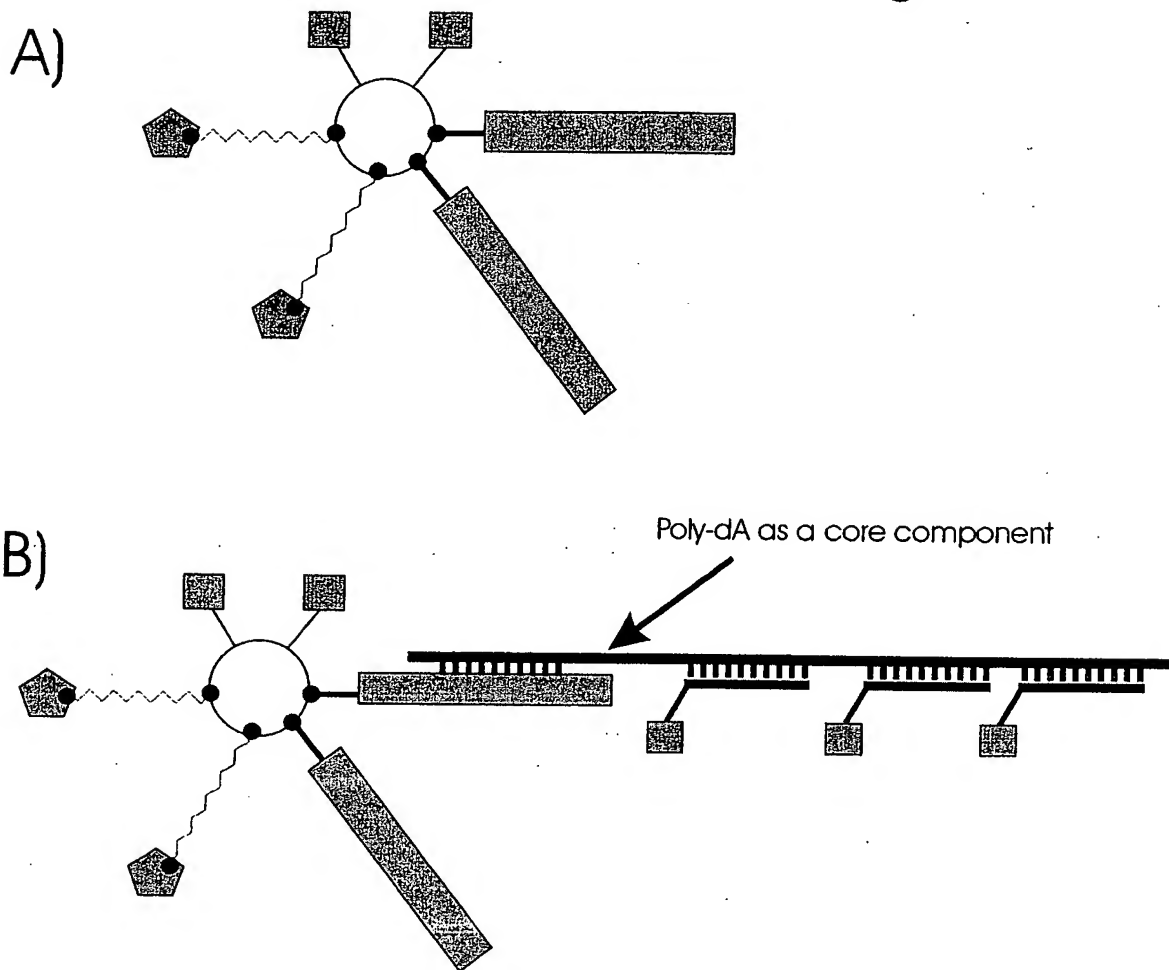


Linker component



Streptavidin attached to  
Quantum Dot

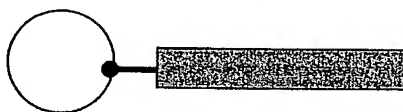
Fig. 35



Legend:



dUTP as a nuc-component

Streptavidin-oligonucleotide  
as a marker component

Fluorescent dye



Linker component

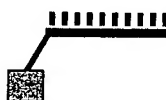
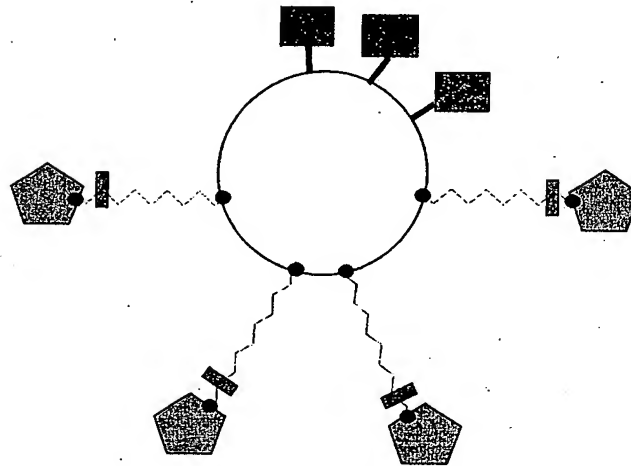
Labeled oligonucleotide  
as a marker unit

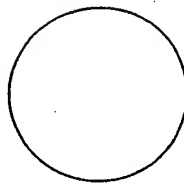
Fig. 36



Legend:



dUTP as a nuc-component



Streptavidin as a  
marker component

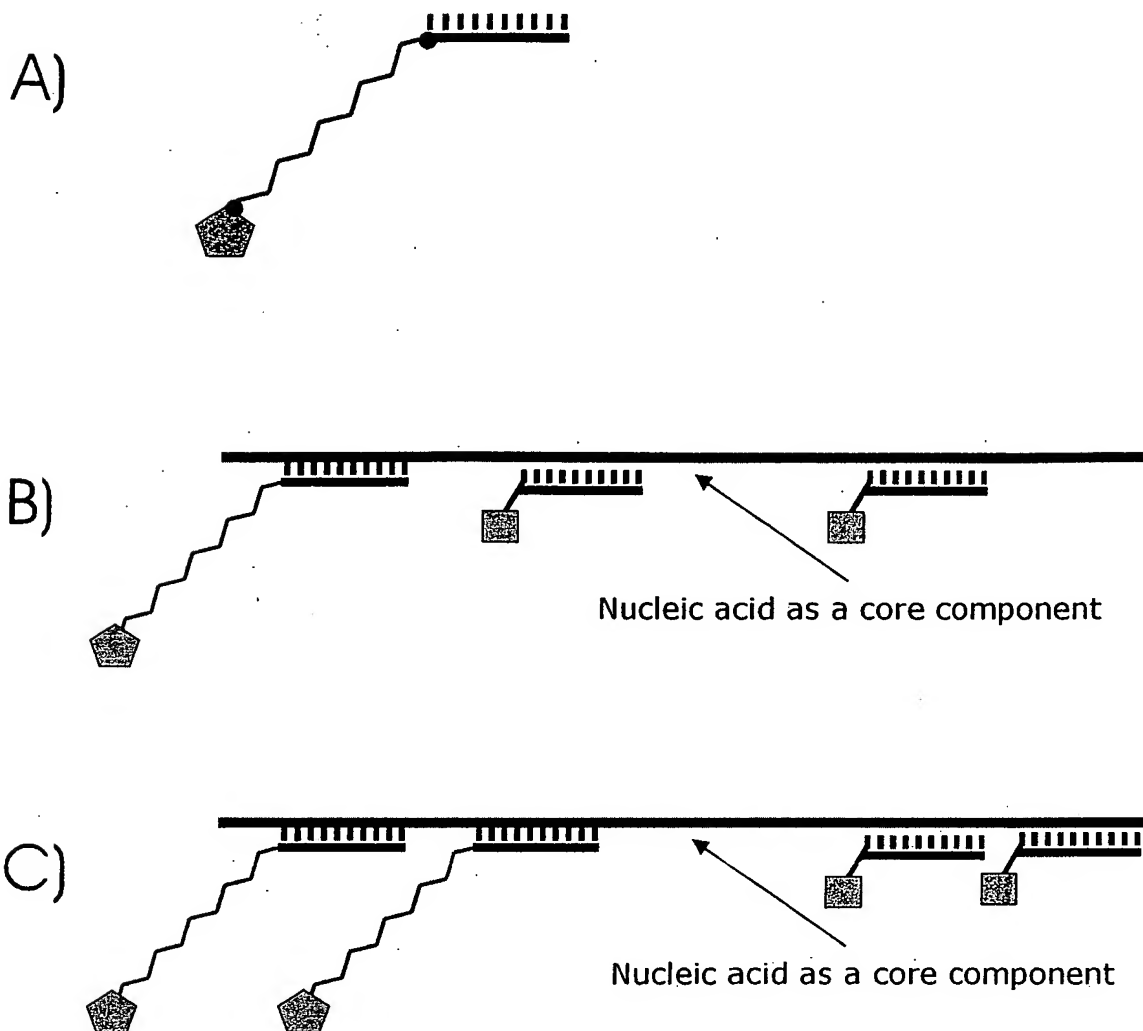


Fluorescent dye



Linker component with a  
cleavable compound

Fig. 37



Legend:



dCTP as a nuc-component



Oligonucleotide dT30



Linker component

Fig. 38

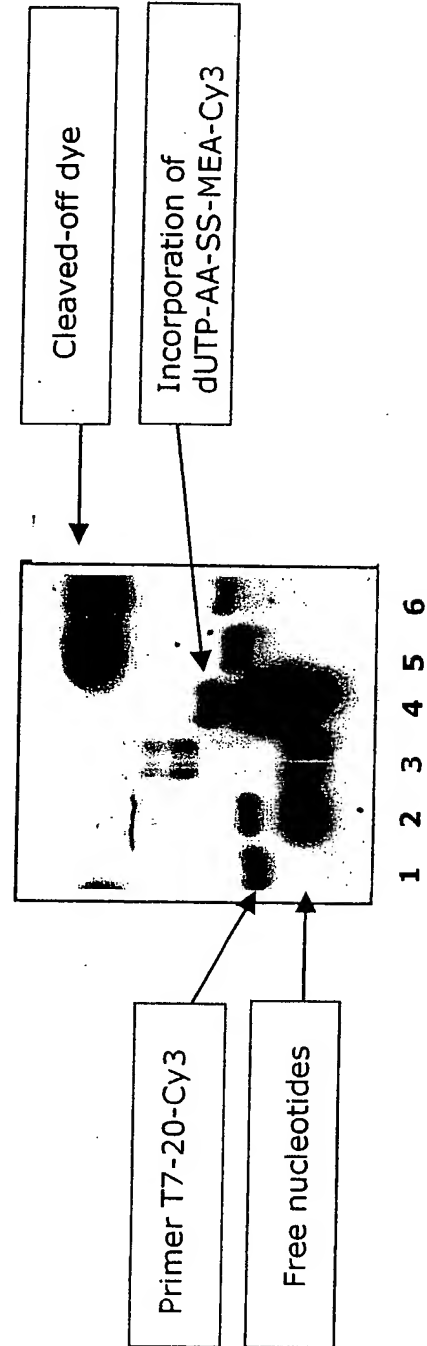


Fig. 39

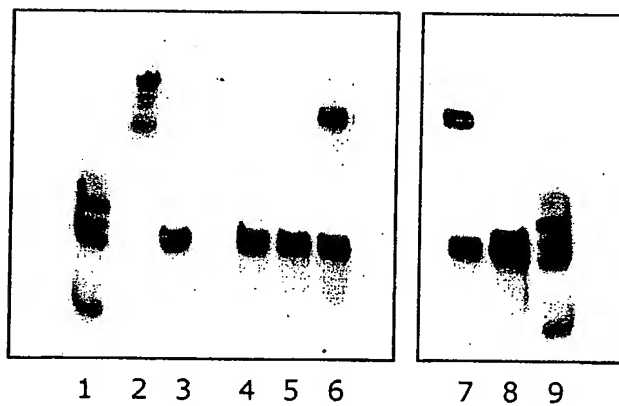
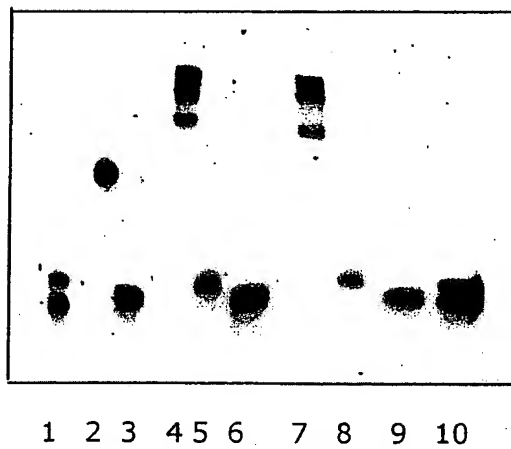




Fig. 40



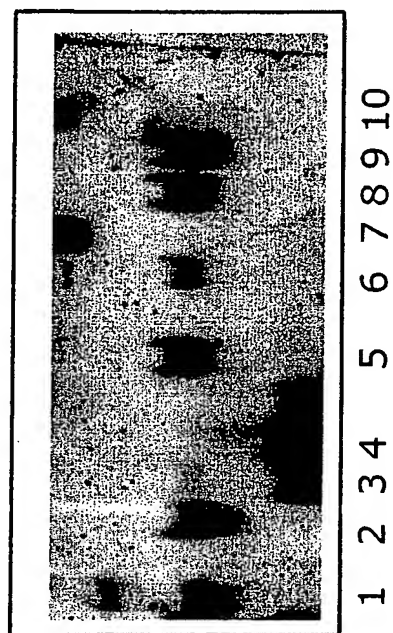
Title: *MAC* MOLECULAR NUCLEOTIDE COMPOUNDS AND METHODS FOR CARRYING THE SAME

Application No.: 10/578,313

Atty. Docket No.: 076030-0011

Inventor: Dmitry CHERKASOV et al.

Fig. 41



## Marker

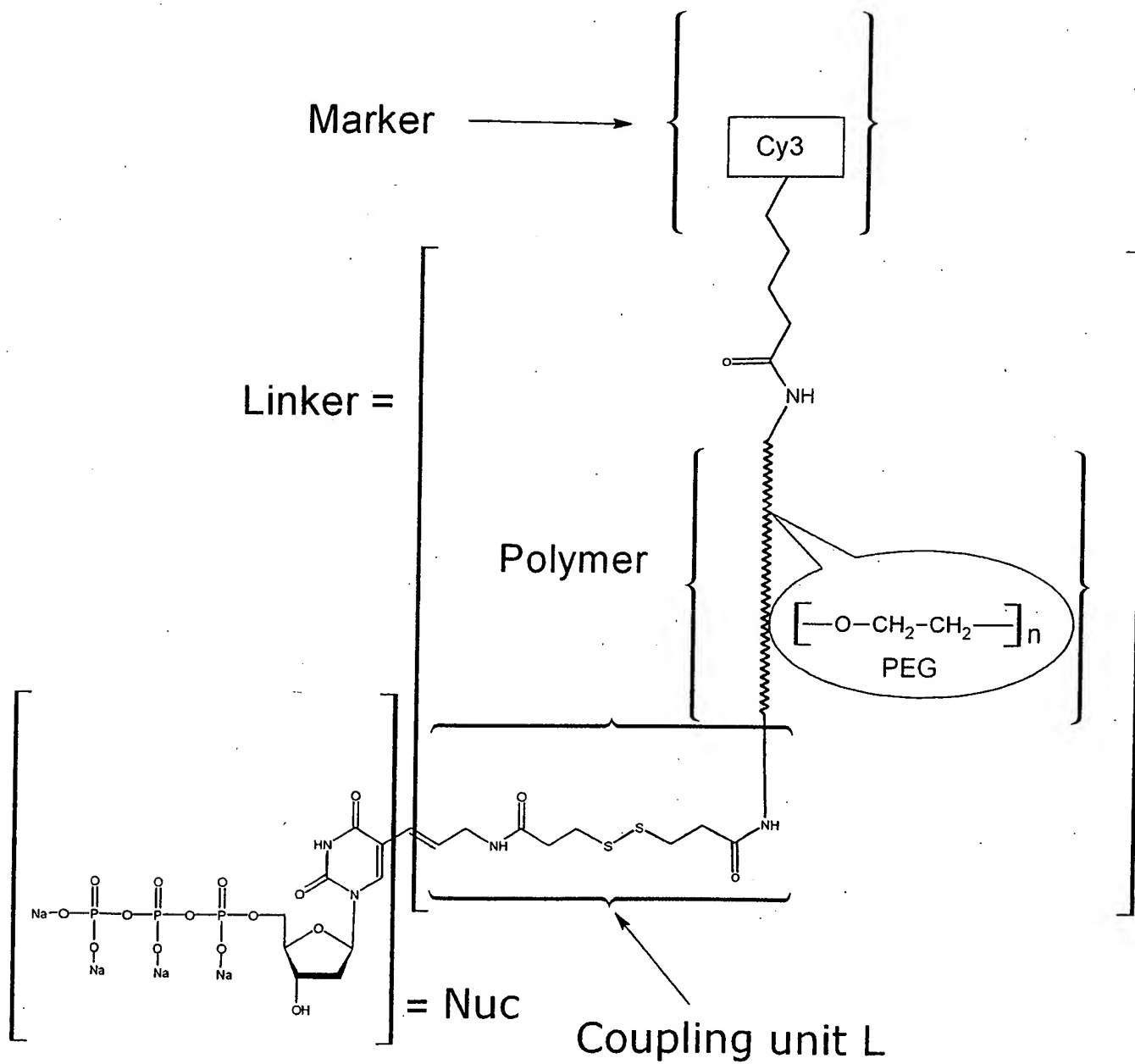


Fig. 42 B

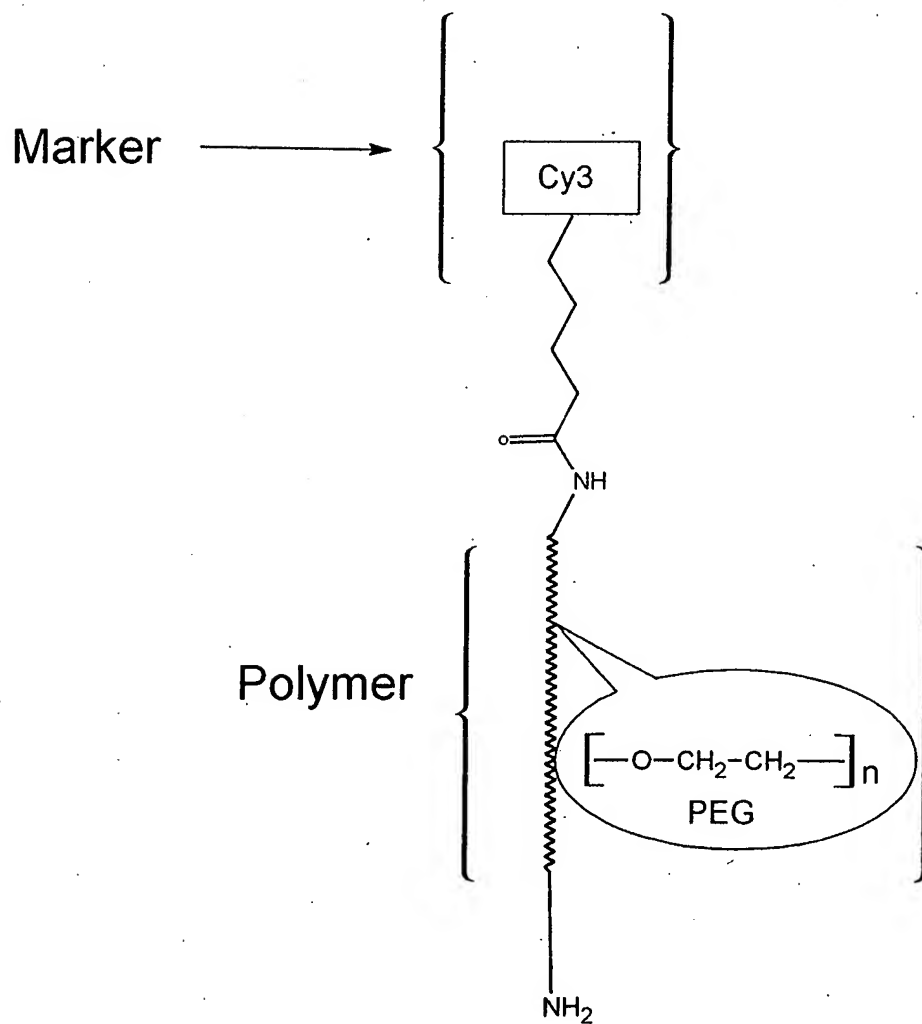


Fig. 43

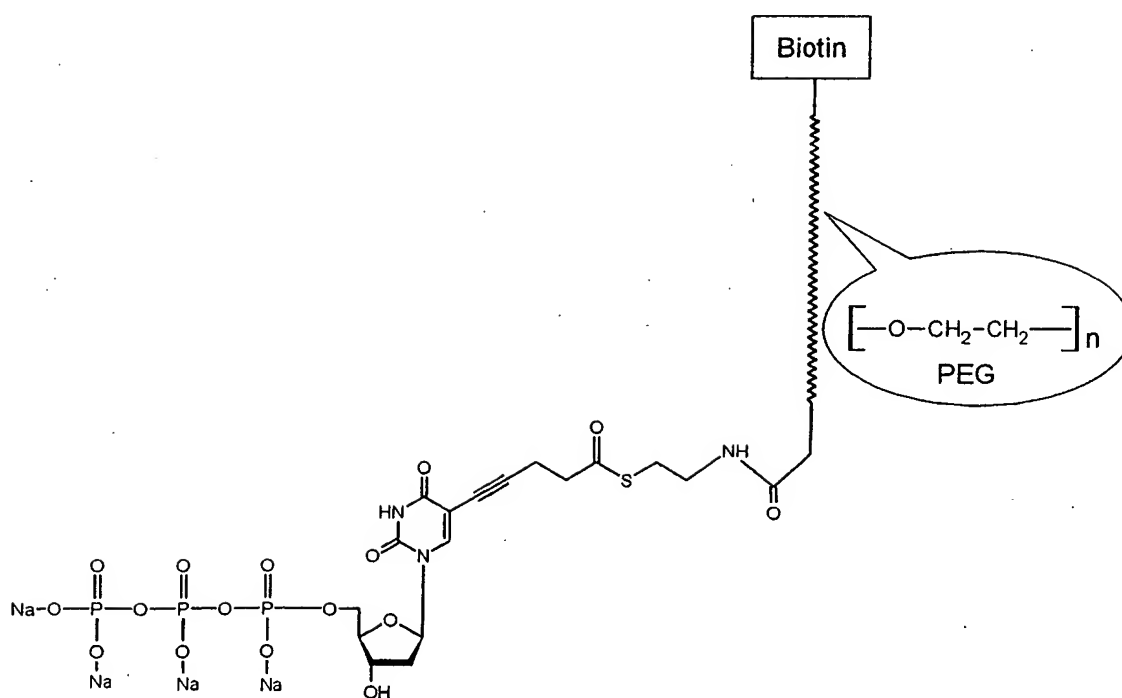


Fig. 44

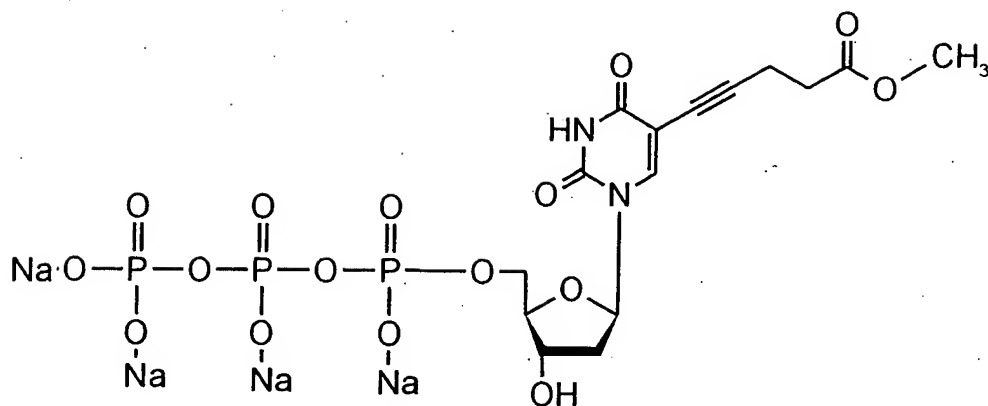


Fig. 45

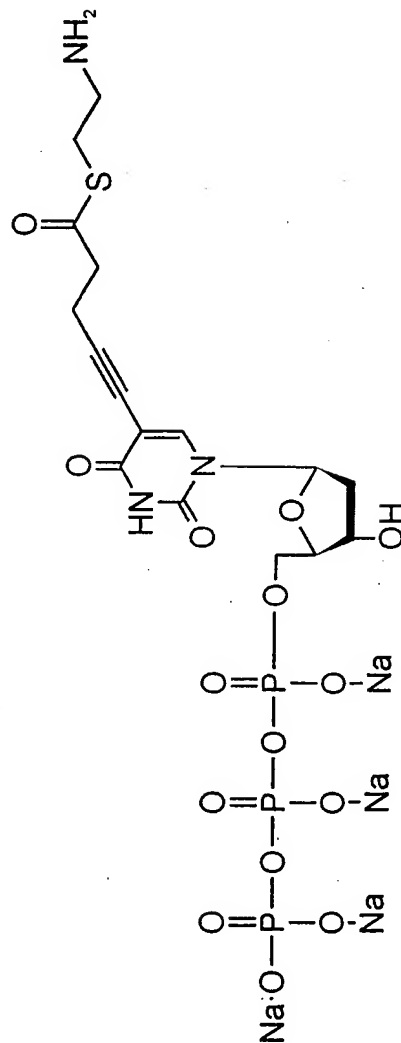


Fig. 46

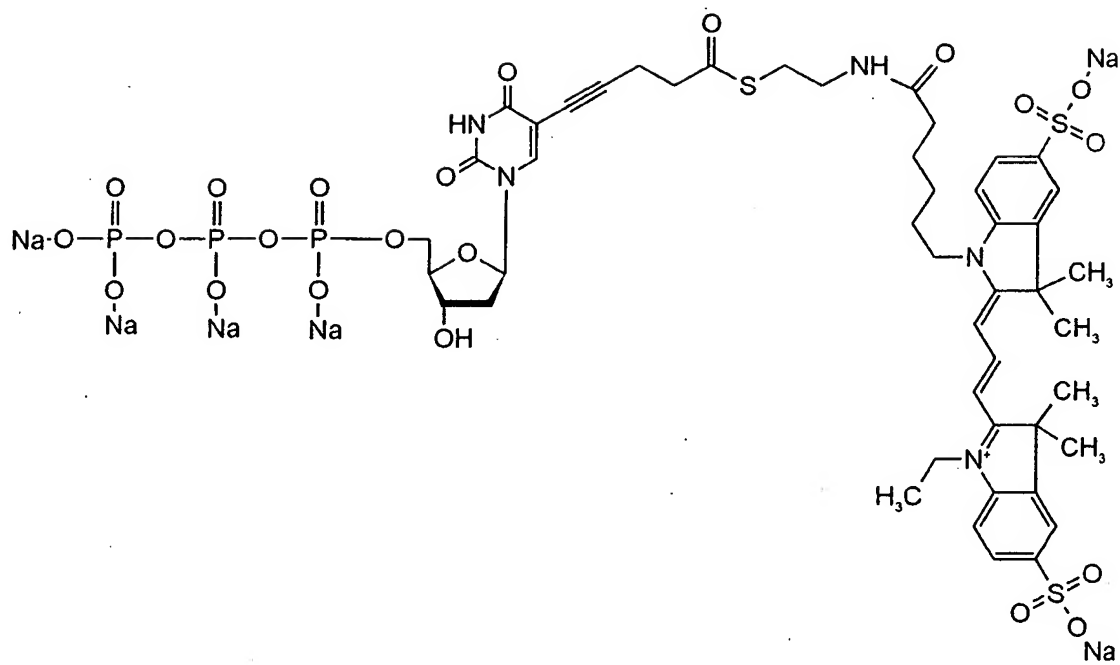




Fig. 47

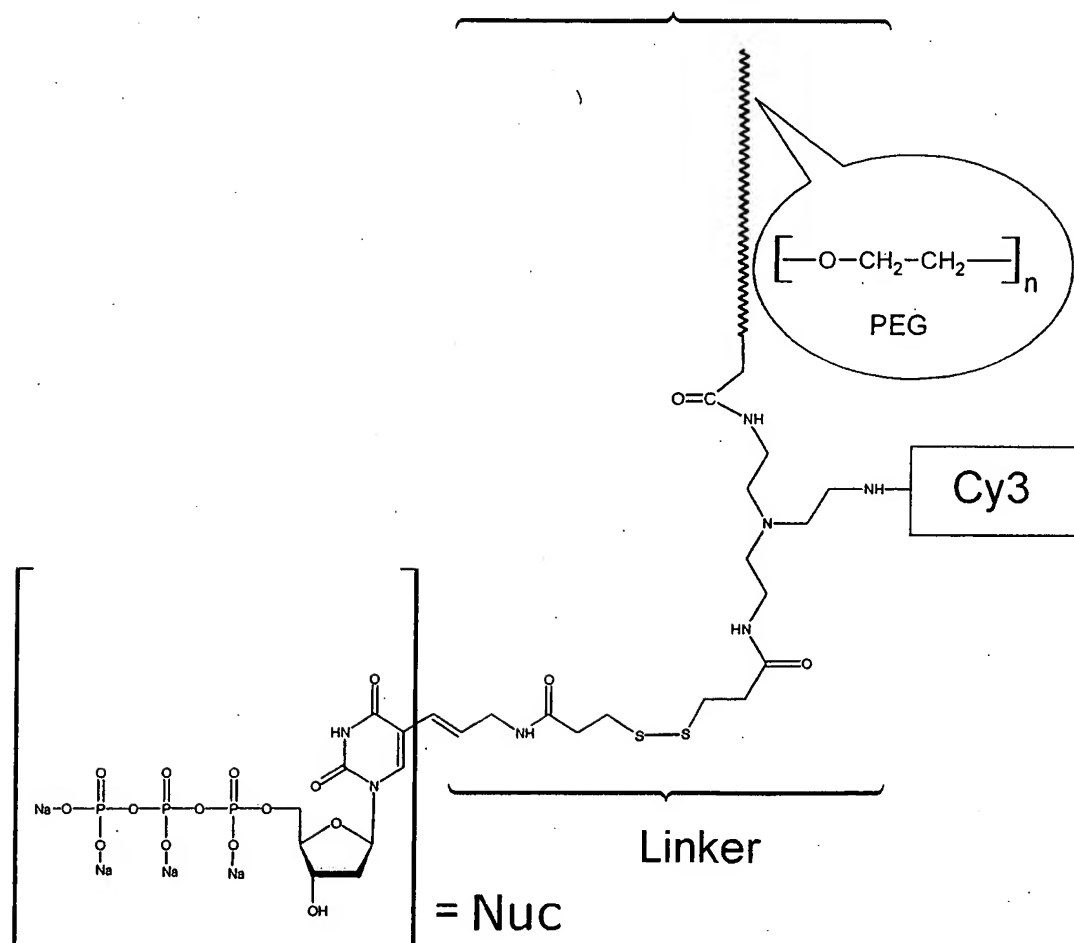


Fig. 48

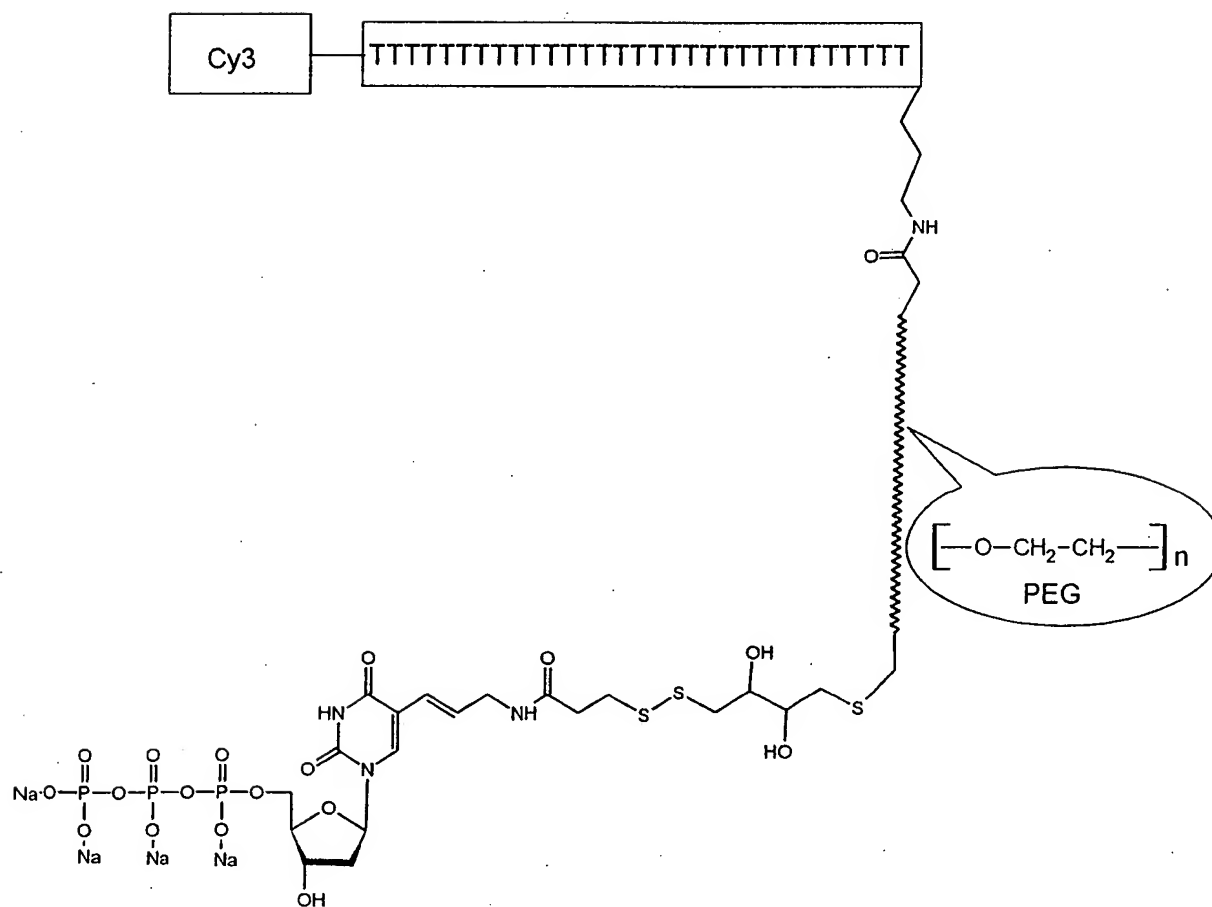


Fig. 49

